

1/472

ua1a2

1 GAATTCGAAG AAGTCCTTCA GTATCTTCAC CAGAGCCAAC TGAAAAGTCA
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101 TTCGAGGAGA GGACGGTCTC CTTACMCAA ACCTCGTNNG ACTCCAAAGA
151 TCCVGATCCC GCTCACGGAG AGAGAAAMCC AGAACAANCC CGACGCAGAG
201 ATAGATCTGG ATCATCTCAG TCAACATCTC GAAGAAGACA GAGGAGCCGG
251 TCTAGATCAC GAGTTACTCG GAGACRGAGG GGTGGCTCTK GTTACCATT
301 AAGATCACCT ACCAGACAGG AGAGTTCTCG AACCTCCTCT AGACGCAGAA
351 GAGGCCGCTN CCCSGACACC CTTGACCAGT CGGAAGCGAT CTCGATCAAG
401 AACATCACCA GTCCTTGGA MGCCTCTAG ATCTSGAGCC TCACCAGCTA
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551 GCGTAGATC TCGATCAAGA GCATCCCCAG TGAGTCGAAG GCGATCCAGG
601 T

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1 GAATTCGTTA TATTTTAAAA CTGCTACTTG TATAAATCTT TCCCAAATAC
51 CGTGGGTTTT GTGCATAGTT TTTACAGATA TGGATTTAGC AGACTGTCTT
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1 GAATTCATCG CACAAAAACC CTGGTATGAA GTCACCTTCC AATGGAATTC
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1 GAATTCGGGG TGCCTACTG ACTGATATTC ATTTGATTTT ATTCATTTGG
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ua1b5

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ua1c1

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ua1c6f

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5/472

ua1c6r

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ua1c6f

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6/472

ua1c6r

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ua1d2

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301 CAAGTGTTTG TTWATTTWAT ACTTTGTGNT TTTTGAGACA GTCACATCAA
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501 CCACTACANA GDAAGNNNNN NCCCGAWYTC

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ua1d4

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ua1e1f

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151 AGATCTCAA CTTGACCGTT GTATCGTCTA AGCAGACAGT CTGTGTGAGG
201 AAKTTGCTC CAATTGTGCT CTYCTGGTAC TCATGGAACT KCCCCTTKAC
251 MAAGCGGAGG DCCAGGCTGG ACTTTBCCAC GGCAGTYTCK TCCAAGAGGD
301 CC

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ua1e1r

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151 GAGGAGGTGC AGCACGAACC CAATGGACCA GCTTGCTGGC AACAAGATCT
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301 AGCACAATTG GA

ua1e1f

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301 CC

ua1e1r

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151 GAGGAGGTGC AGCACGAACC CAATGGACCA GCTTGCTGGC AACAAGATCT
201 TGTCAGTTTA AGCTTGKCC TCTTYGGGCG AGTCTKCCGT TRGGCAAGKB
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51 TGGAGGCCTC CCTTCCCATT AAGTYGCCTC TTTAGCATAG CACCGGCCCC
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151 GAGGAGGTGC AGCACGAACC CAATGGACCA GCTTGCTGGC AACAAGATCT
201 TGTCAGTTTA AGCTTGKCC TCTTYGGGCG AGTCTKCCGT TRGGCAAGKB
251 CARCCTGGTY CTCCCGCTTT GTCAAGGGGC AGTTYCATGA GTACCAGGAG
301 AGCACAATTG GA

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51 GAAAGGATGT CACAGTGTCT TTATAACCGA GATAATGAAA TCTTAGCTTA
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151 TGGTCTAAAA GGCTGTATTT TGTCTGCTTT TTCACAAATC TATGGAAATT
201 GATTTCCCCA TCTTGCAGTG TGCTTAGCKC CCACGNTCCC CAAGTTCTAG
251 AATTCTGGAA AGADCCTTCA TGTATGGAAT GTCTTCTGTK CAGAGGAGGT
301 NCTCAGCATA

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ua1e3r

1 GGAATTCCTG ACATCTGATC AGGAGTAAAC AGCACACAAA GGGAGTGTTT
51 TAAAGGTTTY CTGCAGTGTG AAACAAACTG TGTCTAAGTA CAAGGGCTCT
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201 CAGCTTAAGT GACATGAAAT AACTTGGAACA AGGTTCAAAC TGAGAGACTG
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ua1e6f

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301 CAGGCACACG CGGBACACAC GGCACACACB GGCMAGGCAG GCCAGGSCAC
351 MCGCAYCKCC AGGACCCCB BCCTGCGMCCCG CC

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ua1e6r

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301 TGA

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ua1f3r

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ua1f5f

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151 WAARGTGAAT GKTACYTTCT TAARGTGCTC AACTTCTTTT ATCAGGAAGK
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201 AAACGTTAGG SAGCACATGT TCCGCAGAAG ATAACAAAAT AGATGGSGKA
251 AATAGTGTAG TCGGTGTCGA AGCAATATTA AWCTDTKCCT ATTCCCVGCT
301 AAATAAAGTK AAGCCACCGA TTTTTTGT TTGAGATCTC TATGGRKGTA
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ua1g4r

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ua1h2f

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ua1h3f

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ua1h4

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251 TGA CTGAGGA CGGATCCCAC GTTGGGCTGT CTGCCTAAAN TCCANYTTGG
301 RCMGCACACC CTGAGGAGCA GGCAGGCANG GCTCTGAAAG CAGAGCATGA
351 TCCAGTCAAG GCTCAGGSAG CYTCACAHNN CTGAAGRAAT CATCAGAGTC
401 AACTTCCCT CGTGTGTACA ACCAGGAAGG AGGATGCTGC ATGAACGCAC
451 TGAGAATTCA TTCAGTGAGA CTCTGAGAAA AGAGCCTGAC ACGTCGAATT
501 CC

ua2h6f

1 GGAATTCTCT TTGCATAGAG GTGCAGCCCT GGGCGGCCCC GCHDHKHHHC
51 TCCTCCACGT CCTCGGGGAC CCTGGTCTCT GCTCCCTCCT CACTATTGAA
101 CTCAGAGCTA CTGGGGGAAA GAATGCAGGT TGGAGAAAGA CTCCAGGGAG
151 TCCAAGCTGG GCGAGTCCCC AGGGGGGCTC GGCTCGCTGC TATCCAACC
201 CGGGCTCCSA GCTGCCCCTG AAGGCGCTTG TCACAGGCGC GGGTACCTGT
251 GAAAAGAGAC GCGTGGGCAC CACCCACAG CAGGTTGCAG ACAGTGATGA
301 CGACCACTCT GAGGGAGBNC TGGTGGAGAA CCACGTGGAT GGGACCATGA
351 ACATGTTGGG AGGBBGTAGC AGTGCTGGCH VGAAGCCCCT CAAGTCAGGC
401 ATGAAGGAGC TGGCTGTGTT CCGGGAGAAG GTCAATGAAC AGCACCSGCA
451 GATGGGCAAG GGTGCCAAAC ACCTCAGTCT GGAGGVGCCC AAGAAG

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ua2h6r

1 GGAATTCTTC CTCCTTTAA TCTTAAGTAA AAGAGACACA GGGATTCAAA
51 AATAAAAATT TCTTNNCCAT TCCCAGGCCT GTACCCAGTG CCCTCCATAC
101 CACCCTTNCC CTCTCTAACA GAAGCAAGGG AGGTTCAGCT TAACAGCCGC
151 TGGGGGGGGG TCAGANGGGG GGCTTCTGAG CTCAGTGTTG GTCTCTTTCC
201 AAATATAAAT ACATGTGTCA AACTKGGGA ACTCCTCCAC ACCCGTCACC
251 CTGANNNCCCT CCATTTCTGC TGGTGTTCGG GATGGGGGAA GCCAGGCACC
301 GACTGGCTGG GVGTTTACTG CACACTTTGG GGCATKGGGC CCCACCAATC
351 TCCTGCGCT CGTTDGTAGV AAGAGATGGS ACYCVGGGGT YHHCCCCGGA
401 TWGGTKGGGA GGCTCCCTGG ATGG

ua2h6f

1 GGAATTCTCT TTGCATAGAG GTGCAGCCCT GGGCGGCCCC GCHDHKHHHC
51 TCCTCCACGT CCTCGGGGAC CCTGGTCTCT GCTCCCTCCT CACTATTGAA
101 CTCAGAGCTA CTGGGGGAAA GAATGCAGGT TGGAGAAAGA CTCCAGGGAG
151 TCCAAGCTGG GCGAGTCCCC AGGGGGGCTC GGCTCGCTGC TATCCCAACC
201 CGGGCTCCSA GCTGCCCTG AAGGCGCTTG TCACAGGCGC GGGTACCTGT
251 GAAAAGAGAC GCGTGGGCAC CACCCACAG CAGGTTGCAG ACAGTGATGA
301 CGACCACTCT GAGGGAGBNC TGGTGGAGAA CCACGTGGAT GGGACCATGA
351 ACATGTTGGG AGGBBGTAGC AGTGCTGGCH VGAAGCCCCT CAAGTCAGGC
401 ATGAAGGAGC TGGCTGTGTT CCGGGAGAAG GTCAATGAAC AGCACCSGCA
451 GATGGGCAAG GGTGCCAAC ACCTCAGTCT GGAGGVGCCC AAGAAG

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ua2h6r

1 GGAATTCTTC CTCCTTTAA TCTTAAGTAA AAGAGACACA GGGATTCAAA
51 AATAAAAATT TCTTNCCAT TCCCAGGCCT GTACCCAGTG CCCTCCATAC
101 CACCCTTNCC CTCTCTAACA GAAGCAAGGG AGGTCAGCT TAACAGCCGC
151 TGGGGGGGGG TCAGANGGGG GGCTTCTGAG CTCAGTGTTG GTCTCTTTCC
201 AAATATAAAT ACATGTGTCA AACTKGGGA ACTCCTCCAC ACCCGTCACC
251 CTGANNCCT CCATTTCTGC TGGTGTTCCG GATGGGGGAA GCCAGGCACC
301 GACTGGCTGG GVGTTTACTG CACACTTTGG GGCATKGGGC CCCACCAGTC
351 TCCTGCGCT CGTTDGTAGV AAGAGATGGS ACYCVGGGGT YHHCCCCGGA
401 TWGGTKGGGA GGCTCCCTGG ATGG

ua2h7r

1 CAGGAAATRG GACAGTCTCC AGGCKYCAGA TTGGAGGGAG CRTACCATCA
51 CTTGTTGCAT GGAGTCCCCT GTKCCTCCGT GGGGCTCAGG TKGKAAGCTD
101 GCCCCTAWGB CWGAGCATTG BCCCATTCTT CYGGGGGTRG GASCTCSAWA
151 TBYBGCTTTM

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ug1rcon

1 GAATTCGGCC TGCACAGACT TCTGGGATGG CGCTGACATC TACCCTCTGT
51 CGGGTTCAGA CAGAAAGAAA GTGCTGGACT TCTACCAGCG AGCCTGCCTA
101 TCCGGCTATT GCTCTGCCTT TGCCTACAAG CCCATGAACT GCACGCTGTC
151 CTCTCAGCTC AACGGCAAGT GCATCGAGCT GGTGCAGGTC CCCGGCCAGA
201 ACAGCATATT CACCATGTGC GAGCTGCCCC GCACCATCCC CATCAAGCCA
251 AACAACCGCC GCAGCAGCTG GHGCTCCGAT GAAGGGATCG GGGAGGTGCT
301 GGAGAAAGAA GACTGCATGC AGGCCCTGAG CKGTCAGATC TTCATGGGCA
351 TGGTGTCTC CCAGTACCAG GCGCGGCTGG ACATCGTGCB CCTCATCGAT
401 GGGCTGGTCA AMNCCTGCAT CCGCTTTGTG TACCTTCTCT TTGGAGGATG
451 AGCTCAGGAG CAAGGTGTTT GCAAAAAAAA TGGGCCTGGA RAAAAGGCTG
501 GAAMTBCCAM ATCTCYCTMH MBCCAACCGG TGA

ug2rcon

1 GAATTCAAAA TACTAACAA CCATAAAGT AAAAACCCT TGAGAATTAA
51 AATGAACGAA AATCTATTG CCTCATTCAT TACCCAACA ATAATAGGAT
101 TCCAATCGT TGTAGCCATC ATTATATTTC CTTCAATCCT ATTCCCATCC
151 TCAAACGCC TAATCAACAA CCGTCTCCAT TCTTTCCAAC ACTGACTAGT
201 TAAACTTATT ATCAAACAAA TAATGCTAAT CCACACACCA AAAGGACGAA
251 CATGAACCCT AATAATTGTT TCCCTAATCA TATTTATTGG ATCAACAAAT
301 CTCCTAGGCC TTTTACCACA TACATTTACA CCTACTACCC AACTATCCAT
351 AAATCTAAGT ATAGCCATTC CACTATGAGC TGGAGCCGTA ATTACAGGCT
401 TCCGACACAA ACTTAAAAAG MTCATTGCC CACTTTCCTT YACAAGGGA
451 CTCCAATTTT ACTCAATTCC AATACCTTGA TTAWTATTTG AAACAATTAG
501 CCTAWTTTAT TC

20/472

ug3 meld

1 GGAATTCGTG TAAGAAGCAA GAGAGAGAGA GAAAGAGAGA GAGABAYAYA
51 BNYANYANYA NYMNYMNYAB MHWGMRDSAG NNNNNNNNCC TGNMCMCAGNC
101 CATNCAGGGG NNTTTTTTTT TTTCCNACTT NAGNANCAAG NTGGNNCTGN
151 CTTNCTNNCC AAACCTCCNNA GGNKGNNTTT ATTTNAAGGN CTGNAAGNTC
201 GGNTGNCCTN CGNCCCNTTG NNTTCNACCC NNAGGNNCCA AGNAAGNACG
251 NTCTTNCTNC TGNTNTNCCN ACTCTNCNAC ANTAAGNNCC TTNNCATTTN
301 NAGNCAAGNT CCNTGGNNAA CTCNTCTNAT NGCTTNNGCN AGNCAGNCTN
351 CTNCCCNNTT NCCCCNACNT GNTGNTNCCA GNSCANCCAT NCGTCCTAAG
401 GTCATCTCAG CAGACGCTGT ACGATGAGCA CACAGTCTTC CAGTGAAATC
451 CGCCGTGATG GTGATGAGCA GCATCCTCGT GAGAGGAGAT TGATTTTGTG
501 GTTACTACGG AGCTTCTCCA AGAGAAGGAT GAGTACAGGA TAGGCAGAGG
551 ATGCCTCTGG GACCCTCGGG GTACATGGCA CTCACACCTC TCATTGCTGT
601 GACAGGACAC CTGACAGAAA TGACCACGTT TCAAACATGT GAGCCTTTTC
651 AGGACATTTT AATAGCAAAT AATGTKGGAA TAGGACATTA AATGGTAGGG
701 CATAAACAGA A

ug4rcon

1 GAATTCCTGT GCTTTCCACT GTGTGGCTAT TGGGGGGAAG TGCTGTCTTA
51 AGACATTCTG ATGTTTCTTA CCAGGTTTGT TTTCTTCACA GCCCTAGGAC
101 TGGACAAGAA CAGAGTCATA GAAACTGCTC CTCTCAGTTT CCGAAGCCTG
151 CTAGGTGTAC TTGGTATTGA AGCTGCTCTA GACAGCCTGA TAAGATTGTT
201 CAGTGGAGAT AACAACTAGT CTCCCGCYGG CAAACACACA GGAACATTGC
251 TGGGCTGAGG AACATTCAAA ATATGTTGAC TATGAGCATT TCTCTTTTCC
301 AATTAGAAAC CATATCCTTC AGACATGAGT TTGTGTGCAT TAGTGGTATA
351 TTACATATGA ACTCCCATGG CATAAAAAAA AATMMAGCTA TTAAGATATG
401 TTAATAGTCA ACATATTTTG AATGTTCTC AGCCCAGCAA TGTCTGATG
451 TTTCT

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ug5rcon

1 GAATTCGTGA CACATCCTTA TGAAAAGYAA GGGGGTAGTG CTGTCACTCA
51 CATGCCAGTC GCTAAGAATA AGCAGTAACT AGGAATTATT GAGAAGTGCA
101 AWCCYWGTAT THAATCAGYT CTKAATCTWC AGAGCCTTAT AGCMAACWAG
151 AAWWGICYWGW AYCTGTAGCA ACTTGGGSCC ACWKATKGGT AGGWCCWYYG
201 TAGTAACAAG AGAGGCACAC ACTTT

ug6rcon

1 GAATTCGTTG TATAAGTCAC AAAAATCTAT GATGAAAATA AAACGAACAA
51 ACAAAAAGAA GAAAAGAAAG AGAAAAACAA AACAATACTC CACCACATTA
101 TTCATTCTTA CAGTGAATAC ATAATTCTA AGTCCATCCT AAGTGTGGCT
151 TTCTTCCTAT ACTGCATCCA TCAGATGTTG TTGCATGTCT GTTAGTCCTA
201 AAATGAACTG ACAAATATGT CTTCTCTTTT TCAGAAATTC AGAGTGAGGT
251 GTAAACATGA GCAGAATAGT CTTTTTWAAA TTTTTTACCT TAAATCCTTG
301 AAGGTATCTT GCAGTTCACC CTCCTGCADG GTCAGTGTTA GAACCTTTTA
351 ATNGCTATMC ACCATAGG

ug6?con

1 TGNNTCGATG GATCCATCGA GGCTTGCCTT TGTTGCCTTG CTCACCTGTT
51 GATTGCTATA GAGTCCCTGG GGTCCAGGAA CCTGCAAGAG ATGGGGGTGA
101 AGGCCTCCTA TGCATAGGTT CCATATCAMG TGTGTTGCTT GCCTGGTGGC
151 AGCCACAYT TTGTACCCAC TTCCTCTGCT GGCTCTAGGA GCCTGGAACA
201 TGCTCTTCCC CAGCCTGCCT CTGGCTTTCC CTGTGGTCCT ACTCCGTGCC
251 ACAGCACYTG GGAAGTCTTT GTGTACTAAG TCTCCTGATA GCCAGTKSTG
301 CTTTAGARTG TGGCCGCTYC CCACCGCTKG CCGGGACCAT CCATTCTTC
351 TTCCTTCTC CAGGAAGTTG GAGATA

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ug7rcon

1 GGAATTCCAT TATTAAAAT TATTAACCAC TCATTCATTG ACCTACCTGC
51 CCCATCCAAC ATTCATCAT GATGAAACTT TGGGTCCCTT CTAGGAGTCT
101 GCCTAATAGT CCAAATCATT ACAGGTCTTT TCTTAGCCAT AACTACACA
151 TCAGATACAA TAACAGCCTT TTCATCAGTA ACACACATTT GTCGAGACGT
201 AAATTACGGG TGAATAATCC GATATATACA CGCAAACGGA GCCTCAATAT
251 TTTTATTTG CTTATTCCTT CATGTCGGAC GAGGCTTATA TTATGGATCA
301 TATACATTTA TAGAAACCTG AAACATTGGA GTACTTCTAC TGTTCCGAGT
351 CATAGCCACA GCATTTATAG GCTACGTCCT TCCATGAGGA CAAATATCAT
401 TCTGAGGTGC CACAGTTATT ACAAACCTCC TATCAGCCAT CCCATATATT
451 GGAACAACCC TAGTCGAATG AATTTGAGGG GGGCTTCTCA GTAGACAAAG
501 CCACCTTGAC CCGATTCTTC GCTTTCCACT TCATCTTACC ATTTATTATC
551 GCGGCCCTAG CAATCGTTCA CCTCCTCTTG CTCCACGAAA CWGGGTCAAA
601 CRACCCACACA GGGTTTAACT CAGATGCAGA TAAATTTCCA TTTCGCCCT

ug8rcon

1 GAATTCCGGC CTTTTTTTAA GGTGTAGGGA CCACGTGCAA ATTCAGCAC
51 AGACCACAGG TTCTAGGAGG CTCTCTTCGT AAGTTATATC GTCTTTCAAG
101 AAATATCAGC CAAAAGAAAG TGGTTTATTA TTTTCTACT TTTCTTGAAC
151 TTGGTAAAAA AAATAGCCAT CTCTAAATAC TAAAGTATTT AAGTCTCAAG
201 TTATATCACT TGGTATCACT TCTGTMCTGT GTTTCTTTTC TTTATMCCCA
251 CCCCCTTGTT GTCTGGGAGG CCATATGCTC ATKCTGCCAA CDYTGGTCTT
301 GTGTTACCAG GCTCCAGTGC TCCTCTT

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ug9rcon

1 GAATTCAGAA GGTCTTTAT CCTCCCTCA AGCAACTCTT GGTTTCCTGT
51 TAGATCCTAA CCCTGATCTT MTCAGCAGCT GTCTGTCAGG CAGTCTCCAC
101 CCTGAACCAC CTTCTGAMCT CTYGCCATCT TTTGCCTAAA CATACTATTT
151 MCTTTGGGGG ACTAAGGTTA TGAAGTGAAG GGGAGTGGSC CTAGGSCCCT
201 TAAGGTAGGC CTTCTWCGGT TCTGGGGACT AAGAAAACCA GAACTTYCCT
251 AAGYTGCTC TGGVAAGCCT AAATTCCSST ATGCTCCCCC CAAAGCA

ug10rcon

1 GGAATTCACC ACCACCACNA CCTTCAGCTC ATCGGATGTA CAGTTTACAG
51 TTGAGTAACA GTGAACGGAA GGATTTTCTT TCTTGGTCGG ATGTGCAGAA
101 CTTGGGATGT GTATATATAA ATATATAATA TRTATAAATA TATDTAATNC
151 NGACTTAAAT

ug11rcon

1 GAATWCGTTC CCATGTAGGA GGTAACCA ATTCTGGAAG CATCTNANNC
51 TTCCATAAAT AACTTTAATW YTTAGCATAA TDACNGCCTT NGATTGTCTG
101 NANCTCAGTA GCTATTAAAT AACATCGAGT AACATCTGCA TCAGGCHCTC
151 AGAATATACA GTTGAGTTGG GAGTAACTG AAAAGACAAA TGTGTTGAWG
201 DCTATGCCAN GGGAATCTND CTCAAAGCCT AACACAGNAD DCANCTTCAT
251 CCCAGTGACD ATNYTGGACG TACAGATGGT GATDGCAAAG GTGTAGAACA
301 CATTTTTTCA AAGACTAAAT CTAAACCCA GAGTAAAMAT CCGATGCTCA
351 GAGTTAGCAT AATTGGAGC TATTCAGGAA TWGCMGAGAA ATGCATTTTM
401 ACAGAAATCA AGATGTTAWW TTTTGTAATA CHAWWWCAC TTAGAMAAC
451 GTGTTTCATT TGCTGTAAWC AGTTTTTAAA AGTCARATGG AAAAAGCAAC
501 TGAAGTTCCT TGAAAATAGA AAATGTAATT TT

24/472

ug12rcon

1 GAATTCGCGG TGTGGAGGCT GGTGCTGAGG CGCGGGCTGG GCTGGCGAAG
51 GTTGGTGA CT TGTGTGCAGC CAGTGAGGCG GGTCACCTGC ANGGGGGCCT
101 TGAATGAAGG CTGCTAGGCG AGATCAGTGA AGAAGGAAGG GGCTTGGGTG
151 GCGGAGGCCG GGGAGAATCA TGGAGGAAAG ACCNGGGBNN NBAGGCTGAT
201 GGGSGGGTTA CTGTAGAAGC TGTCCGAGGA ATCTGGAGAA ANGGGAGACC
251 TTNGTTTAGA CCGATTTTKC AAANCACTGC CCCTTGTTGG AGCTACCCCC
301 CCAAACCCCC TGDNGDGCCC CTGCTACCGA CAATGGGCAG CCTCTGTTGG
351 ATGCTCCCTG TCTGTCCAAG CTCTGACCAT CTCTATATCT AGTGCTTGTA
401 CCTAGGTCTG CCTCACTCAT TGAATGGAGG AATGTTTCCA GAGTAGGGCC
451 AGGTCTTCTC AAAGTGG

ug13rcon

1 GGAATTCGTT TCATAATATT TATTTTTTCA TTTGGGAACT GGGGATATT
51 ATTTAGGAAG GATGGTTCAG CTCTTTTAAA TCTTTGGGCT CACTGATGGG
101 GTGGGGGGTG GGACACGGGG TTGAAGGAAC TTGAAAGTGG GGAGGAATGG
151 TACTATTGGC ATGGGGGTAC CTGGTATTGA AAATGGACAC ATNHNCYAGC
201 TGAGAGTGAT GTCAC THGCC TGTAACCCA TTATTCTTTG GGATGCTGAG
251 GCAGGAGGAT TGAGAGTTAG G GACTAATAA TNRCTAGGTG CTGACAGTAG
301 AACAGGAAGG AGGGTAGAAC CTGAGTTTTG TNGCCTCTTT TAAA

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ug14rcon

1 GAATTCGGAG ACGCTATNCC GCTTCCATCC GTMDCDCAGA CCCTGCCGGA
51 GCCGCTGCCG CAATGGATGA TCGGGAGGAT CTGGTGTACC AGGCGAANST
101 GGCAGAGCAG GCCGAGCGAT ACGACGAAAT GGNTGGAATC AATGAADRAA
151 GTAGCAGGGA TGGACGTKGA GCTGACAGTT GAAGAACGAA ACCTTTTWAT
201 CTNGTTGCAT ATNAAAAATG TGATTKGATG CCAGAAGAGC ATCCTGGAGA
251 ATAATCAGCA GCATTGAACA GRAGGAAGAA AACAAGGGAG GAGAGGACAA
301 WTAAAGATG ATTCGKGAGT TACCGGCAAA TGGTTGAAAH CTGAGBYTCA
351 AGTTAATCTG TTGTGAACAT TCTGGATGTA CTGGACAAAC ACCTCATTCC
401 AG

ug15rcon

1 GAATTCGAGA AGACTTACAG TGGTGGCCTG ATAAGGTATT TGGGAAAAGT
51 TTATACCTTT CATTAGAGTC CTAACAACCA TTCACTCCAT TAAATGTTTC
101 TGTTTGATTG AATGAGACTT TTATAGGACT GTTGAAAAGA GGCATCAGTT
151 TTAAAGTGCT TATCTGCCCT TTGTTTTAGA AGCAGACCAC TAGAGATCTT
201 CTGGTGCATT CCCAAGCTAG GTACCACATG CACTTGWTBC TTGATGAAAT
251 GAATTAGAGG ATTGGGGTGG TAGTCTCAGT AACACATGAG AATTGTTACA
301 TTCTTTGGTA GGCATTGACT CTDMCAGGTT TGAAATGTCA AATGGACCCT
351 AGTTTCTACA GGGCAAGCTC TAGTCATTGA TGCAGGGTGC ATGTAGGGAC
401 GAGATAAGGG CTATGGATTT CCATTTTATG AAGTACGTTT GATAGACCCT
451 GTGATGCTTA GTAGACAAAG GAGTAGGCCA AATGAGAGTA GGGGAGGKKC
501 AGAAAATAGD GCCAGAGGTA AATTY

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ug16/38/80

1 CGCGGATTCT TTATCACTGA TAAGTTGGTG GACATATTAT GTTTATCAGT
51 GATAAAGTGT CAAGCATGAC AAANGTTGCA GCCGAATACA GTGATCCGTG
101 CBGCCCTGGA CCTGTTGAAC GAGGTCGGVG TAGACGGTCT GACGACACGC
151 AAACTGGVDG AACGGNTNGG BGGTTCAGCN GCCGGVGCTT TACNGDHVCT
201 TCAGGAACAA GCGGGCGCKG CTCGACGCAC TGGCCGAAGC CATGCTGGCG
251 GAGAATCATA CGCATTCCGT GCCGAGAGCC GACGACGACT GGCGCTCATT
301 TCTGANNCGG GAATGCCCCG WGCTTCAGGC AGGNGCTGCT CGCCTASCSC
351 CAGCACACTG GCGGNNNTCG AGCATGCATC TAGAGGGCCC AATTCGCCCT
401 ATAGTGAGTC GTATTACAAT TCACTGGCCG TCGTTTTACA ACGTCGTGAC
451 TGGGAAA

ug17rcon

1 GAATTCCCGA AAATCCTCC TGCCCAAAGC TCCCNNTAGC TACTACACTG
51 AATCCACACA GGCTTGGTAG AAACCACAGC GGTCGCCCCA AATCTGCCAC
101 AGTTAACGCT ATATGTAAAA CTTGAAACAG ACTCTYAAAA CCCCTGGTAG
151 ACTHTAGCT TCTTGAGGGA TCANTTGGTT ACAGAGTCAG TCAACATAGC
201 AACNTATDCC TCCNRGGCAT CNNGGTACGT CACCAACATA NNGSYTTGNH
251 HAGCCCGAGC CACACAACBS NTCAGBTAC NNCGCTMGCA GTACHSVCNN
301 NARDAMGTGG STGTTYNNWK GGCRGCMCTT NNTYAWCMAR CNKRAGCYRT
351 VKGNNNNNAG SWKYBNTNSR KAWYYRKGSA GCCCCAGGAC AACAAGCCAG
401 CAGTTTCTAC TTCTGCAGCT CTTTGTTCTT AACAGTCTAG CTGACAAGCC
451 ACCGTTCACT CCCAAATCCA CTCACCCTAT TCAATAGSCC TAGARGTATA
501 TTTAAG

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ug18rcon

1 GGAATTCGTT GGCACCAGGG CGCCACTAAA TTAAATTGAG TCAGCGCCTA
51 AATGGTTCTK GCCTGGGTAT CAGGCGTAGG TTKGCCAGGA TTYYGCTTCC
101 CTAAATACGT TTTTCTGACT TAGACTCATT TGTAATTATT GTTCATTTCA
151 TTTGTGTTTT TTTTCTTCC TCTTTTCTCT CTCTCDCDHH HNHCBTCCTG
201 TCACAATGAT AACAATTTAG CATTCCAGCK CAAAAGAGT YCTTNTTTGA
251 GAAGCAAAAK CAAGGACAAA GACAAGTCTY CATTGGTCCA TCCAGCTCTC
301 TCAA

ug19rcon

1 GAATTCCGCT GTCTTCAGAA GAGGGCATTG GATCCCTGTT ACAGATGGTT
51 GTGAGCCACC ATGTGGTTCC TGGGAATTGA ACTCAGAACC TCTGGAAGAG
101 CAGCCAGTGC TCTTAACCGC TGAGCCATCT CTCCAATCCG CAGTTATTCT
151 CTTTTACAAA TATTTYATTT TTACATGTGT TTGTATGTGC TTGTATGTGC
201 ATATGTATTT GTAGATATCC ACCGGAGCTG AAATTACATA CAGGTAGCTG
251 TGAGCMCCAT GTGAGTGCTG GGGAATCAAA CTCACTTGCC TTTTTCAAAA
301 TMAGTCCACG CTCCTAACTG TTGAGCCATC TCCTCAGGCC CCAACTTTCT
351 GATATTTTCA AAATAAAAGT CAACGGTACA TCTATGGGCA GGATCGAGCT
401 ATATGMAGGT CMCAGTACTT CCAGGGYTCA CGADV TAGCT AATGTATRCT
451 CGGTGCTTGC TAAGAACTAT A

ug20r2

1 GAATTCCTCT GCATAGCAAG TGCTAGGASY AT

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ug21rcon

1 GAATTCCCAA ATTTTGGTTA AAAATAAAAA ATTATTCTCC GGCTCTACCT
51 CGCCTCCCCA AAAGATACCG AGAGCCACAT GTGTGGGTTT TACCAGTACC
101 CACGGGAGGA ATCGGGTCCA TGTCCACCCA AGCCAAGGTT AAAAGCCCAC
151 TCATCTACGG ATGAGAAAAT CAATTTGAAT CACCTCAGTT AAGCGTTGCC
201 TTAATTTAAC TTAATTAATA AGGGGGGGAG ARAGATTGGA GGACVATACT
251 AATTGAAARG GGCAAGCCCT THACWGCCYC CCAACCCAAA ATWAAAAGRG
301 CCGGYGAAC MGSCTTTCYT CCCTKGWTYY AAA

ug22rcon

1 GAATTCCCCG GCTCDAGCGG CCGCTTTTTT TTTTTTTTTT TAGTTTTGTG
51 TCGTTTAATT AAAAAAACTC AACAGGGATA AAAAAACAAG CATTTTACAT
101 AATGCATACA TTCTCAACAT CTGCAGATGA GATAAATAAA AGAAGGCTAA
151 AGCAGACATA CTGTGTATTG CTTCTCTTG GTAAGTTACC AATATCCTCT
201 GCAGAAATAA AATATGTTAA AAACAAAACC CATGGTMTTA AAATAATTGT
251 CCCTTAGTAT TAACCHAAAT ATTCAGCAAT AATTACAGTA GATGTAGTTT
301 TCAAATTGGC AAGAATGCAT AATACTTTAT TCTCTGAGGG GTAAGTAGCT
351 GCTTTCCAAA ATTAA

ug23rcon

1 GAATTCTACC TGGCCACCTC AGACAAGGAG AGGAADGAAG ATWGGTCCGA
51 GAGCTCATGC AAGTCGTCCT GGCTAGAAAG CCCAAAATGT GCAGCTTCCT
101 GGAGTGGAGG GACCTCAAAG TTGTCTATAA GAAGATACGC CARTCTCTAT
151 TTCTGCTGCG CCATCGAAGG GCCAAGACAA CGAGCTGATC AACTGGARG
201 CTGATCCACC GATACGTAGA GCTCTTGGAC AAGTACTTCG GMARCGTATG
251 TGAGTTGGAA CAWCATCTTY MAACTTTKAG GAAAGCCTAM CTTTAWTCTG
301 GRMSGAGDTT TYTKAWTGGG TNRGGGAATG A

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ug24rcon

1 GGAATTCCTC GCTGCGGCTG CGGGATGGTT GGCGGTGGCG GGAAGCGCCG
51 GACGGCCGGG GCGGGACCGC AGTTGTGACA AAGACTTTTC ATGGTGCAGG
101 CTTGGTTGTT CCAGTAGATA AAAATGATGT TGGTTACCGA GAGCTCCCTG
151 AAACAGATGC TGACCTTAAG AGAATCTGCA AGGCAGTTGT CGACGCTGCA
201 AGSSACCGAG GAGAGACTGA AAGCATTCGC TCCCATTGAG GAGATGATGA
251 CTTTTGTGCA GTTTGCTAAT GATGAGTGTG ATTATGGCAT GGGGCTGGAA
301 TTAGGAATGG ACCTCTTTTG CYATGGCTCT CATTATTTTC ACAAAGTTGC
351 TGGTCAGCTT TTACCTCTTG CGTATAATCT ATTGAAGAGG GATCTGTTTG
401 CAAAAATTAT TGAAGATCAT CTGGCAAGCA GAAGTGAAGA GAACATAGAC
451 CAGCTTGCAG GATGAACAAG CTGCCCTGTT AGTGCAGTGB CTTTGAAGTG
501 GGACCAGCAG ACGGGGCTTT GTTTTAAAGG AATGGAGAAA TAAATGAATT
551 CCMC

ug25rcon

1 GAATTCCTG GAGGAGCTCA TCGACTACAC CGGCGGCCTC AAGCACGAGA
51 TCCTGCAGAG CCACGGTCAA GATGCTGAAT TATCAGGGAC ACTTTCCTT
101 GTTYCTGACA CAGTGCTGCA AAAGAATAAA GGACACTGTC CAGAAGTTGG
151 CCTCTGACCA CAAAGACATC CATAGCAGTG TTCTCGAGTT GGAAAAGCCA
201 TTGATARGAA TTTTGATTCT GACATTAGGC ARGTKGTGGG GAATWGATGG
251 YYTGCTKGCC AGGCCAGRAC AGCCMAACGG CTTCTCAATK GAGGTCATKG
301 GKTGGRAACA ACKTTCTTTC CGGACCAAGG RAA

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ug26rcon

1 GAATTCGTTC GTGCATAGCC TCCACACTAG GGTTACAGAT TACTGTGTGT
51 GGGTGTGTGT GCGTGTGTGT ATGTATGAGA TATATACTGC TAGCTCCCCA
101 GAACTAGTCT GTGGGGATCA TCTTCCTGGT TAACTGATGC ACGGCCCCAAG
151 TTCGGCAACA GCATCTCAAG GCAGGTGGTC CCGGGCTGTA TAAGAATCTA
201 GCCAAGCATG AGACAATTGT TTTCTAGCT GATGCATTGT ATTTACAAAT
251 TAGAACATGT CAAGACAGCA AGTCTTCTCC TTAGATAATT TTCTTGGTAT
301 TTCAAATACC TACAGTGCNC TGA CTTC AAC SCTGGGGRRD ARGGARARDR
351 VCACAACCCT AAATACYTGT GGCGGCTAAS CGAACAGAAR GGGGCATGTG
401 GTGAAGACCA RCCTGGGCTA TATGGTGAGA ATTCCACCA

ug27rcon

1 GAATTCCCGC ATCATGGTTT GTCTAATCCT TAGGAAGCGA CCTCGTTGGT
51 TTTCTTTAG GTCCAGGTAG TATTCCTAT TGTCCTCTC TATATAGTCC
101 GTTTTGAGGA CACTGTGAGG ATGCTCTTCT GACCCCACTG ACACCGGTGG
151 GGAGGGTGCA GAATGCTTCT GCGCCTCCT GGAGACTTGC TCTTTGCTCT
201 GGCCATGCTC CTGTCTGTGG CCTTTCAGGC CCAGATGGGC ATAGTGCTCG
251 ATGAAGTYGC CTAGACAGTC CTTCAGCTCT GCTGCTACCG ACAGGGAGAG
301 GGTCAGTTTA CTCTTTCTGA TATTGTCTG CCGGCCTCTC CCTATCCAGA
351 CTTYGGCTAT CTTTAGGAAG CNNBCCCGGG AGCTCTGCTT CACGTCTAGG
401 TAAAACCYCT TTTYTSGAT GTCCACACGT TTGGAGGCTA GTCCTGGAT
451 TTCGATGTG CCCCCAGACT GATTAGGGGT BGCTGAHTCG GAGTAGTKGG
501 GGGTAGTGAG AATDCTGGGB CTGGGGATAG AGGCTAC

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ug28rcon

1 GAATTCCTG GTTATGTGGG GATAAAAATC CCAGGCAGCC TCTACCCAGA
51 TGCCAGTCAC CTAGTAAAAA CAACCCTTTA TAGTTTTTTA AACTTAAAAA
101 GACAACGCTT GAACTCAGAA ATGTAATTTT TAACTCAACA CTAACCTGGT
151 TAATATTTAA TAACTGCAGG AACAAGTGGG GAGGGGGCAC GATGACAGAA
201 TCGATTAGGA ATTTTAACT GTTGAATGCA CATAAGAAGC CATCAGCCAA
251 ATGACCAACA AAGCAGTCTT AAAAATTCAT CAGGCCTGAG TAATCGAACT
301 TCAGTAACTT AAACCCACCA TGGGGCAGTG TGCATGGAAA TCCCTCTTKG
351 CBCCTCCCTA AGGAGAGCAG TCTAAAGAAC AGATAACCACT TCCTGCKAAT
401 TCCACCACAC TGGCKGGCCG CTCGWGCATG CATCT

ug29rcon

1 GAATTCCAGA CTGACCCGGG CAGCCAAGGT GTTGGAGCAG CTCACAGGCC
51 AGACCCCGGT GTTCTCCAAA GCTAGATACA CTGTCAGGTC CTTTGGCATC
101 CGGAGAAATG AGAAGATTGC TGTTCACTGC ACAGTCCGCG GAGCCAAGGC
151 AGAGGAAATT CTGGAGAAAG GCCTGAAGGT GCGGGAGTAT GAGTTGCGGA
201 AAAATAACTT CTCGGATACT GGAAACTTTG GTTTTGAAT TCAAGAACAC
251 ATTGACCTGG GCATCAAATA CSACCCAASC ATKGGGATCT ACSGCCTKSG
301 AMTTCTATCT CCTBCTC

ug30rcon

1 GAATTCGGCC GAGCGCCGCT TTTTTTTTTT TTTTTTTTTT GAGGCGGGCA
51 GCTAAGGAAG GTTGGTTCCT CTGCCGGTCC CTCGAAAGCG TAGGGCTTGG
101 GGGTTGGTCT GGTCCACTGG GATGATGTGA TGCTACAGTG GGGACTCTTC
151 TGAAGCTGTT GGATGAATAT AGATTGTAGT GTGTGGTTCT CTTTGAAT
201 TTTTTTTCAG GTGACTTAAT TGTATCTTAA ATAACCTACC TATAGGGAAC
251 MAAGGGAAGG TGGCTTTWAT TKACCCCTGR AAGGGADTTT TYTTCTGGGT
301 GRATAGGCTT TTTWTTWTTT TTCCAAGTTA AGAGGRTACT

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ug31con

1 CGCGATAGAA GACAGACNNG BTAGAGAGGY GGAGYAAYYC AGCAGCAGAA
51 TNCTTGCCGA GCACGAAGCC CCAGCTTCCA TCCCTCCTGT TGCAAGAAAT
101 AAATTAATTT TAAAGTGCCA TTAAAATAA AGGCATTGAG CCAGGTGGTG
151 GTGGAGCACA CCTTTAATCT CAGCACATAG GAGTCAGAGG CAGGTGGATC
201 TCTAGAGTTT GAGGCCAGCC TGGTCTATAT AAAGTGAGTT CAGGACAGCC
251 AGGGTTTGTG ACAMAAGAGA AAAAAAGATG TTGTAATTTG GAGTAAAACA
301 AACACAAACC GAAGAATCTG TTACAGGAAT AATKTGAGAG AGTCACYGCT
351 TTAGRATGAA TACTGTGGGG TTTTCTCYGT GTGTTCTTGG GGTGTTTT

ug32rcon

1 GAATTCCCCC TAACTGCTTC CTGCTAGAAC ATCAATTTAC TTTATCAAGT
51 TCATACTCGT GCTTTGAAAA GAAGAACAGC AACACACCAC AGCATCCATC
101 GGGCCTGACC TTCTCAAAGT AAACACAGAG GGGCCTCTGA AAGGCAAGAA
151 CCATTAACTC TTAAAATTCT TCCTGCCTTG GAGTGGAGGG GGTGGGGAGG
201 CAGTGGATAC GTGTGCAGGC ATAGTAGTGA CAGAACTCAG CTGATGTTCT
251 GGGGTTGGGC CTGGGAGAGA TATCATACAG GACTCGGCCC ATTTTACTC
301 TCTGGCCTAA AGATTTTGAA ATAGGACCAA GTTGTCCATG AAGAGGGGCT
351 GAGAAGCCAG AACTGGTAT TATAGCATAA TTTTAGAACT CCGTGTGCTG
401 TGATGAGATG CTGCCAGGCT GAGCTGCBGC CTCTGAGATG CTCGGCAGTC
451 AGAGTGTTGC TAAGAAAACC CCTCAGTATA GGAACAGACT CTAGGTGCCT
501 GACATTTGTG GCTCTAGCAT CTATATTCAA TAGTTTHCAC ATGATAGGCC
551 TGTA AACAT ATGTTTCTGA GGACAAGACA TTTCTAAGAG AGCTCTGGAG
601 GTTATTTGAA CAGGTTTT

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ug33con

1 GNGGCGCAGT GTGGTVGMAT TCTTATACAA ACCGACAAC TGCACCAAAG
51 CTTATAAAAC ACGATAGTAC TGTCCTCTT TTCTGAACCA TCAGAAGACA
101 CAAAAC TGT AGTGACACAA ACGGTGACAG GTAGCTGGGA CCTAGGCTAT
151 CTTATTATGA AGGTTGTTTT GCTTGTTGTA TATTTGTGTA TGTAAGTGTA
201 CGAATTTGTA CCATAGAGGA CTGTCCGTAA CTACTGTTTA GCTTCTACAC
251 ATTGAAATGT AGATGTTTCA TTGGCTGTCT GAAAAGGTGT GGCTTGTCTT
301 TCCTAGAGAG ATCTACTTAA AAAC TGTGTGACAAAA CCACACCTGA
351 AGAAATTTTA AGAATTTGGC CCAGTTAGTC ACTCTGTGTA ATCCCGGAAT
401 CTAGCTGCTG AAGTCTTGCG AAGTAACTC CCCGTGACCG ATGTCAGTTA
451 AGCTGGTGAT ACCTGGAGAD GTGGTCAGTT GCTAAGGAAG TGGATTTCCT
501 AGTAGGGGTT TCTGCACCTC ACCTGTATAG G

ug34con

1 GATTCGAACA TACCACCTCT GCCCATAVA CTGTTCTCTC CGGGGGAAAA
51 AAATGGAAGT TACCTCACAG TCACTGCCG TGGTATTTC TCTGTCCCAT
101 GCTTTGCATG ATTGCCATGG TACAGCATTG TTTCAAAC TCACTGTGA
151 TCTGTGGGTC TTTGAGTTTC AGTGAGTTTG CTGAAATGTC GAAGAAATAT
201 TTCCAAACTT CAATGTTCAA TGAAATTTTT GTTCAAGTTT GAAATGGAGA
251 GAGCAGCTTT AAAAGGTACT AAGCCTTTTA CAAATTGGTG AGTACTGGCA
301 CATGAGACCT AGAGCAGGAC CAACTTCTCA CACATAGTCA GTGGGAAAAG
351 AAAGTGCCTT GAAAGTTCCT CCCTCMCTA CACAGTAGTC GTCATGTCGA
401 GACCTGCCAG AGAGAGACAC ATTCTCAAGT GAATCCTGGC TTCTTGGAAG
451 CGCCTTSCCT AGACGAGACA CAGTGHCAAT AAAACAAC T

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ug35 con

1 GGATTCTCTA CATAATTTGA AAGGAGGCAN NGTCTCACTA TATGGCTAAG
51 GCTATCCTGG AACTTGCGAT CCTCCTATCT CAGCCTTCCA AGTGCTAGGA
101 CTACAGGTGT GTGCATCTCC ACTATCAGGC CTCACTTGTA GATGGGAAAC
151 AGGAGTGCCC CATCTGAGAA TATGCATGGC CTCACTAATA AAGCCAGGAC
201 CACACCACAG CAGTCCAGGT TGTCTBCGGC GATGGGCTGA CCTTCTGGGA
251 CATATCTACT CTATGTCCAA GCCAAGGACA CTGMCTTTCC CCATGTGAAC
301 CTAGTCCTCA GAAATGAGCC AYCCCTTCGA ATGGATTTAT GCCACTGGAT
351 GTGAAAAGGG ATGCTGTTGT TTTGTTATTG GGAAGCCCT

ug36rcon

1 GAATTCGCTT GCTTCAAAGC CAGCCTTTTG GATTTCAGAT GAGCCGCGGG
51 TACCCGCAAT CTATGTGCCA GGACGCCAGA CCCGCTTATT GAAATCAGAG
101 CTCTATTTTG CCGGCTGGGA CCCACCGCCC AGAGCCACCT AGGTGCTAGT
151 CGAGGGCGCA CGGAGCTGAG CTCTCCCGCG GCTCCTGCAC TTCCTTCGGT
201 CCGGCCTGGT CTTGGCACTC GGGCTGCTTG ATTTGGTGGT GCAAGAAAGG
251 TATGCGTTGC ATACGCCCTA GCCCTTTGCT CCAACGCTCT CAGCCCCCTT
301 GGCTCAGACA GTCCACTCCT AGGTCTGGTT CTCACGGCCT TCCCTGCAGC
351 TGGCTTAGCT GAGAAGGCGG TGAGAGTCGC GTCAGCAGTT TTGGAGGAGA
401 AAGTGCGGGT TGATTATTGA CCCACGCCTT CTTTCTTCAA ATGCCACATC
451 CGACCCTGAG GGTTTGAAGA GAAAAGCGG CCGAGCBGHW TTNNYCGGCC
501 GGCTCTCACC TCCTAMACGT CCCGGGCTCT TCCCTTTCAA GTTGCGCCGC
551 TGCAATCTGC CATAAGGAGC AAGTGTTTGC TGTTTTGTGC TCTGTTTACA
601 GCTTT

35/472

ug37rcon

1 GAATTCTAAC GCGTGCGCGA GTCAGGGGCT CGTCCGAAAG CCGCCGTGGC
51 GCAATGAAGG TGAAGGGCCC CGCCCGGGGG GCCCGAGGTG GGATCCCGAG
101 GCCTCTCCAG TCCGCCGAGG GCGCACCACC GGCCCGTCTC GCCCGCCGCG
151 CCGGGGAGGT GGAGCACGAG CGTACSCGTT TAGGACCCGA AAGATGGTGA
201 ACTATGCCTG GGCAGGGCGA AGCAGAGGAA ACTCTGGTGG AGGTCCGTAG
251 CGGTCCTGAC GTGCAAATCG GTCGTCCGAC CTGGGTATAG GGGCGAAAGA
301 CTAATCGAAC CATCTAGTAG CTGGTTCCT HCNAAGTTTC CCTCAGGATA
351 GCTGGCGCTC TCGTCCCGA CGTACGCAGT TTTATCCGGT AAAGCGAATG
401 ATTAGAGGTC TTGGGGGCCG AAACGATCTC AACCTATTCT CAAACTTTAA
451 ATGGGTAAGA AGCCC

ug39rcon

1 GAATTCGCAG CAGCAGAAGA TGGGCGTCTA AAAAGGGGCG ATCAGATCAT
51 TGCTGTCAAT GGGCAAAGTC TAGAAGGAGT GACCCATGAA GAAGCTGTTG
101 CCATCCTCAA GAGGACAAAG GGCACCGTCA CCCTCATGGT TCTCTTTGA
151 AGTGA CTGCC AGAGCTGAAG CAGCCCAGCC ACTGGCTCCC CTCCTACTGT
201 AACAGAGAGG ACCTGTTTGT ATGCTGTGTT GGTCGGAGAA AACTACAGGG
251 AGGCGAGAAA CAGAGTGTTT GTTACTCACA GCCAAGCATC ATTTTTCCTT
301 TACTCTGCAT TTCATGATCA TATACTCAAA AAGAAGAGAT ATTTGCATAG
351 ATAAACCTCA GTTTTATCTC GACAATATCT AACAATTAA GTTCACGTGG
401 ACAAATTAT TATATGTTCA TCTTGTTAGT GTGGAAACAA AATGATACAA
451 AGTTAGGCAA TTAGGTAAA GATGGAAATT TAGAGAAAAA GAAGACAGTT
501 TTGAGTTTTA TAGGACTTCT TCAATCCAGC AGTCCAAAAG AAGAAAAGAA
551 AGTGCTTGCA ATACTTTTGA ATAGTCTACT GTTTTAAAT TGTGACATAT
601 TGGTCCTACT TACCTCTAAT GCATATTTT CTGCTAAAAT TGTTTAGCAG
651 TCCTTGTAAG CTTTAAAAGR AATCCYGT T

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ug40rcon

1 GAATTCCTT CAGAATTGTC ACCCCACATA AAAAGTTTTTC CATCCTCAGT
51 AAGAGCAGCG GATGTATTGG CGCCAGCAGA GAGCTGTTTA ATGGTATCAG
101 CAGGTGTAAA GAAGACAATT TGATGAAAGG TGTCTCTATC GTCAGTGTCA
151 CCAAGCCCCA GTTGACCTTC ATTATTCCA CCAGCTGCAT ATACGCCACC
201 AGTATCTGTT GAAACTAAGG TGTGGTTCCT TCCACAGGCA GCAAGTTTCA
251 CTTCTCAGG CTTAAGAGCT TTGATACATG TTGGCTTGAT GATAGCAGCT
301 TTTGATCCTA ATCCTAACTG ACCCCAGTTG TTAAGTCCGA ACATGTACAA
351 TTTATTATTT CCTGTAACAA TAGCAGTATG TTCATCTCCA CATGAAAGAC
401 ATATGGGTAT GTCATTTTTA AACCAGAATT TGCTAGGAAT ATTTTCGGCA
451 AATTTAGTTN NNCAAACGTT AAAAACAGCA CCTGTATCGG GCACCAAGTGA
501 CTCAGATTCC GCCATGCCGA AGCCTGCGAA CGGAATCT

ug41rcon

1 GCGCTTCTNG CKRNNGTCAT GGCATCNTAG GAGNGTGSCC AATBRCGCSC
51 CTATTAKGTN GASTGCGTHN TTTARCRATT TACASCTKGG GCCGGTTCGT
101 TTTTATAGCVA ACCGTAYGGT SGATCTTGGG

ug42con

1 ATTCTCAGGC CTCCTTAGTC ACTGAGACCA GGCTCTTCCC ATCAAACCTCC
51 TTGAGCTGCT GCACGCAGTA CTCGTCAATA GGCTCAGTCA TATACACCAC
101 CTCGAAGCCC CGCTTCCGCA CTCGCTCCAC AAAGGCAGAG TTGGCCACTT
151 GCTCTTTGCT CTCACCAAGT ATATAGTAGA TGGACTTCTG GGTCTCCTTC
201 ATGCGAGACA CATACTCTGA CAAGGAGGTC ATCTCATCTC CAGACTGAGA
251 GGTGTGATAG CGAAGGAGCT CAGAGAGGCG GCBGCGGTTA GTGGAATCTT
301 CATGAATTCC AAGCTTTAAA TTCTTGGAGA AGGCCTCATA GAACTTCTTG
351 TAGTTCTCCT TGTCTCAGC CAGCTCGGAG WAKATGCTYC AHGGCACTTC
401 TTGACGATGT TCTTGCGGAT GA

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ug43rcon

1 CGCAGTGTGT SNTCGCATTT AGTTTTTTTT TYBBGCACCT TATTCCTGTG
51 GTGTCTTCAC TAGAGATAAT CAGGGTGCCA CTA CTGCTTC TTA CTTTGAT
101 ACCTTTAGCA AAAATCCCAA TGAGGTAATT TATGGTTTAG TAAATGAACT
151 CAATAGCTTT TTKGTTTCAA GAGTCCAACA ATCCTAATTC CTTGAACTTT
201 TTCTTAGAGG TTATATTTTC CAATCTTGGT TTTGTTTCTT TTA AWT TTTGT
251 TCYTTAWCTT TCTCTCATTC TYACGKKATT TCTGAAACAA CACCCCACTA
301 GGA AWTGAG CCCMCAGTTC AATTKGACCT CACCTCCTAA GAAGTGGGSC
351 TTCTTTTCAG TGGACCACCA CTWAAAGGRA AAC

ug44rcon

1 GAATTCCTGT GGGCAATGAC ACACACACAC ACAGAGTGAG GGAGAGAGAG
51 ACAGATACAC ACATACATTT GAATGAAATT TTAATTTAAC TCATGTAATG
101 CCCTTGAGAC ATGGAAAACG CAGTTGTGAG GTTAAACCAT ACAAGCTTAA
151 GACTTTGACA GCATCAAATT GATCACCACG TTTACTGTCA GAAGCACAGA
201 ATTCATGGTT TCCCACTTTC TTTCTACGT TAGATAAGCT TGCTAGTGTA
251 GAGTTTGTCA TAGGCGATGT CTTGTTTCTA TAGGCTGTTA ACGATTCACA
301 GTTGTTTCTA ATTAAATATG AGTTTTTAAAG TTATTGATGC CCCCATGTGG
351 TGAAAAGCGT ATCTTTCCTC TGTTAGAACT TGGAAATGAC TATATTTTCA
401 TTTTAATAAA AGTGGATAAT AATGTTTTTT GGAAATGCTG TTGATCAGGG
451 ACATAATTTG AATTTTGTAA AGCTCATTGC CATAAAATTC ACAGCCTCAC
501 CCTGTGTTGT CTCAGAAGTG CATGTAACCA AGCACGCCCA TTGAGACAAA
551 GTATAAGAGA GACTGAGTTA TAGAATAGCM TAGGGCTTTH TCYGATCCAT
601 GTTTGDTGA

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ug45

1 TCAGACCAAC ATCAATCGAT TCATTAAATA TCTTACACTA TTCCTGATTA
51 CCATGCTTAT YCTCACCTCA GCCAACAACA TATTTCAACT TTTCATTGGC
101 TGAGAAGGGG TGGGAATTAT ATCTTTCCTA CTAATTGGAT GATGGTACGG
151 ACGAACAGAC GCAAATACTG CAGCCCTACA AGCAATCCTC TATAACCGCA
201 TCGGAGACAT CGGATTCATT TAGCTATAAG TTTGATTTTC CCTAAACATA
251 AACTYATGGA GAACTTCAAC AGATTATATT CTCCAACAAC AACGACAATC
301 TAATTCCAAT TATAGGGCCT ATTA

ug46

1 TTCGATGGAT TCCATCGAGG CTTGCCTTTG TTGCCTTGCT CACCTGTTGA
51 TTGCTATAGA GTCCCTGGGG TCCAGGAACC TGCAAGAGAT GGGGGTGAAG
101 GCCTCCTATG CATAGGTTCC ATATCAGTGT GTTGCTTGCC TGGTGGCAGC
151 CCACATTTGT ACCCACTTCC TCTGCTGCTC TAGGAGCCTG GAACATGCTC
201 TTCCCCAGCC TGCCTCTGGC TTTCCCTGTG GTCCTACTCC GTGCCACAGC
251 ACTTGGAAG TCTTGTGTAC TAAGTCTCCT GATAGCCAGT GCGCTGCTTT
301 AGARGTGTGG CCGCCTTCCC ACCGGCGTGG CCGGGGACCA TCCATTTCTT
351 CTCCTTCTT

39/472

ug47rcon

1 GAATTCGTTT CCTGACATCA AGAAAACACT GCAAGTTCCC AGGACAACGG
51 GGACAGAGCT GAAGCTGGGG ACAGAAGCAG GGTGCTCCCT AGGCTACTTC
101 TGTCTGGTTT TCCAGCCACC CAGACCCTGA CTTGGGGCGT GAGTCCTTAA
151 AATAGCTACA GTACAAGTAG GTATATGAAA GTGGAGTGTC CTTCAGAGTT
201 CAAGCTACTA CAAAATGATA CCTGTCCCCT CCAGGGAATC CCAATTCAGA
251 AGTCAGAATT AAAGTGGCCA ATTATCTCTG AGACAGGGAG AGAGAGACAG
301 CTTGGAACG TTGCATCCAT GAGGACAGTA ATTTGTAAAT GCTAAATGGT
351 ATCCCCCTTC ATACAATGTG GCAAGGSATA TATGTCTTAA AACCAGCTTG
401 AGCCAGGTAT GGTGATACAC YYCTGCAATC CAAACAMYTT GGGAGGCGTA
451 GAGAGA

ug48

1 GGAATTCGAT CGGCCTATCC CACTAACTG CTGGCTGGAG CTCTGAGAGC
51 TCCTCCCTGC TGAGGCGGTG CTGCTCGCCC CGTAAGTGCC AGCAGCATA
101 TCCTGCGCCG TGTAGCCACT GGTTGCCATA GGCAGCTGCC CCATAGGTGC
151 CTTGAGCATA GGTGTATTGG CCTGCTTG TG CCCCAGAGC AGAATTTGGG
201 CTTCCATAGC CACTGCCATT AGCATACTG GCTCTATCGG GTTCCACTA
251 CSGATCCCTG TAAGCTTGTA GAAT

40/472

ug49rcon

1 GAATTCGTAA AAGGAGGCCT CGAATCTGAG TGACAATGGG CCCTTCTACT
51 CCAGGGACAA TGATTGTATC CCCTTCCTTC AAACGTCCAT TGATCAATAT
101 GACATCTATT GTGGTGCCCA TTCCTGGGAG AGCTTTAACC TCCATGACTT
151 GTGCTCTCAG CTCTTCACAG TGTGCAAGCC TCTTGCTCAA CATGGTTTGA
201 GTTAACTCCA CAAGAAGGTA GATGAGACTT CCCATGCCAT CACCAGTATG
251 TGCAGAGGTA GGTACCAAGG ACACGAAAGT GCGGGGGATC TTTATTCTCA
301 TAAAACAAAG CAGCATTCAA ACCCTGCTGT GCAAATTCTA CAATAATGGC
351 CTTTGCACGC TCCTCAAATT CATCCTTTGT ATCCTTCTTC TGCTTTTTTA
401 AAGTAACAGC CWCATCTAGR ATCAGGASTB TTTYTTCCAA TCATATAACC
451 TGTTCAATCT TTATTAAGTG CAACAATGAA GGGGCACTTT TTAGATTGGA
501 GAATKTTGAT TGATTCAATT G

ug50rcon

1 CTCAGCTATG CADVVVNNTG GTACGAGCTC GGATCCACTA GTAACGGCCG
51 CCAGTGTGGT GGAATTCTTT TTTTTTTTTT TTTTTTGAGA CAGGGTTTCT
101 CTGTATAGTC CTGGCTGTCC TGGAATCAC TCTGGGATCA GGGTGGCCTT
151 GAACTCAGAA ATCTGCCTAC CCCTGCCTCC CAAGTGCTGG GATTAAAGGC
201 GTGCACCACC ACTACCGCCC GGCCACTGAT ATGCCTTAAG TGACAGACAT
251 TATGCTTGTC AATTAGCTTT CACAAACAGT ACTGTCTCTA CAAGGCATTC
301 AGATAAAGG AGCCTCAAGT ATCTCCTACC TGATAAGTCA TGCAAGAGG
351 CTGCACTTCA TATGGGGTCA TTTATAATGT ACATGATTTT ATTTGTATAT
401 TACTACTGAT CATGTACCAG GGAAACTATT CTCAGAACCC AGTTTTTGTT
451 GGAAWACAAA AAGTGCAATA TATGACTCAA GTGCAAAARA AATCCTCCAA
501 TTTTATTCT GTAAGGACAG GCTGGGCCTG ATGCACACAG GTCCCTCCCC
551 GGACTAGTAA GGCAARATGC AGCTA

41/472

ug51rcon

1 GGAATTCTTT TTTTTTTTTT TTTTTTTTTT TTTTAGAAC AACTCAGCAA
51 AATAAAATTC CGGTTTATTG TTGGACATTG TTTCACACAT ACATCAAACA
101 GGCCAAAAAA AAATAAACAG CAACTTCATA GACAGAAAGA AAAGGAAAAA
151 AAAAATCTTT TTATCTTTGG CCTTTTAAAC CATCTCATAA AAACCAACTA
201 CTTATAGTAC AGCTAGGTAC ATACACAAAA GTTACTGGAA TGCTCGGAAT
251 AAGATTGTTT TTTTGTGTT GTTTTGTCTT TTTTTTACAA GGTTTTTTTT
301 TTCTCCTTG AGATTATAAT GAACATGGTC ACACCACAAG TAAAGTCTGA
351 AGTAGGACAG AAAACKCTCT GAAGGCTGGT TTGGTCACCC GTTATCATT
401 AAAATGGCTG GACCCTTAAC AATATGTTAC AAAAATTTAA AATGTTAAT

ug52rcon

1 GGAATTCTTT TATCATAAAA GTGTTGACGT TTATTATTA TAGCACCATT
51 GAGACATTTT GAAGTTGGAA TTGGTAAAAA AATAAAACAA AAGCATTTGA
101 CCTGTATTGG GTGGTTGAAA CAGCAAAAAA TTGTATTCTT TTTTGTCAA
151 ATTATGCTTT TTCCAAAAGT TTGGAAATAA ATAAGTGGAA TTTAGTTGGT
201 CACTTGCACT GGTTGATAAG ATAAAACAA GATGAACACA TGGATGTGGT
251 TTTTGTTTTG CTGGGGTTTC AGAGAGTTTD GCTTATAAAA AGCAAACAGG
301 KCCAATGTCC ACACCAAATT CTTGATCAGG ACCCCCAATG TCATAGGGTG
351 CGATATCTAT GATGGGTAGT CTCATDCCT TCGTGTTTG ATATTCAAAG
401 ACTGTCTTDC DCCATTCCCC AGTGTGTTTA GTACAGCCAT TCCTCTAGAA
451 CTGTGTAAGT GAATTTDCTG TTTCTTCCA GCCTTGA

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ug53rcon

1 GGAATTCCAG ATCAGCTCCA ACCCGGNGCT GGCAGCCATC TTTGAAAGTA
51 TCCAGAAAGA TTCTTCGTCC ACCAACTTGG AATCAATGGA CACGAGTTAG
101 ATGTGTGCNC CCCGTGAGGA CCATTCCATG TGACCGCACA ATGCACTGAA
151 CGACAGGTTG ACCACAGCCA CGGGAGAGAA GTGTCCAGAG CTTACGATG
201 TTCCACTTTA CTTTCCTTCC CGGGAAGTTT GTTTGGCTTT CTTCCATTGT
251 TGTTTTTGTA GCTTTTWCTT CAGAAGTCTG TATTTCCATA AGCCAGAGGT
301 TGTAAGCCA CTGATGTTTT TAGTGTTAG GGCAACATTT GAAATGGGAA
351 CTTAADDNCT TGGATTTATG AAATGTGGAA ATAGGGTCCA GTATCTGTT

ug54

1 GAATTCCCGG GATTTTCATGA TTAAAAGGA AACATGGTGG TATTAACCCA
51 CTTGGCAGGT GTCAAATCCT CATGACCAGC TTAAGACAGA TCCTAGACGG
101 AAAGGGAGGT GCAGCCCAAG TCAGGGCTTT GGGGTGCACA GGGAGCCAGT
151 AAGGAGGAGA CCGTCTGGGT TTCTTCCCAG ATGTTAACAT CTTCTTGGCT
201 CTTACTCACT CCCACCCTTC CTCGTAAACA AATCAAGGCG AGCCCTCTAA
251 GGCTGGAGAT AGCCCAGTCC AGCTCAGATT TAATACTCTA GCCCTTCCCC
301 TTGTGTTATT TTHMCMAGC TGCCTTCTGC CTCCAACATA TGA

ug55rcon

1 GAATTCGAAC AGGCCAATSA GGAGCTTCGA GAACTTAYCC AGAATGTSAA
51 AGACTTSCCT CAGCCGTGAG CCTCCCATGT GGCCCAGGCC ATGTGCTTGC
101 TTCCCTTGTG TCTGTGTGTA CTTGAGTCTC GGTGTCTGCA ATGGACATGT
151 GTTTATRACC CTATGTCTGG CCCTGAGTCS CTGTCCAGTC AATGTSCCTA
201 AGT

43/472

ug56

1 GAATTCCCTC CTCCCGCAGT TGACAAGCCA AGCCGCCAGC TAGCTTCATC
51 ACCAACTCGC TCTCGTCCA CCATCCTGGA ACCCTTTCCC AGCTTCACCA
101 CCACATCCGT ATGGCTCCTT CTTCTAGCT TCCTCCACCG AACCGCACTC
151 TTTCTGGGC TATCTTCACC ATGCACTGCT GCTGCHGGCT CCTCAGTCCT
201 TCCTAGCTTC ACCAACTGG CTTCGGGACT CCTGTCTGCC GCTCCTGTCT
251 TCCTAGTTCA CTGAATGCAC TTCTGTGTAG ACCTGGGTCA GCTGCCAATG
301 CTAGTCGTTA GGATTTTAAA AGCACCTCAG CTCAAGTCCA ATGCAAAATG
351 CTGACAATCT TGAAACTGTT ATCAAAAGTC CTTTTGTCAT CAAGCAAAT
401 TAAGCTACAA GTTAAGGCTT TTAATATTCT CTAACCTTA A

ug57rcon

1 GAATTCTGGA AGTGTGAGCG TCTCTGGAGC AGATTTTTTC CGGGGCCGGT
51 CTTTGGAAT GGACAGAAAT TCTGGCGCAT CTGTGGAGAG AGGGGTGGAT
101 GGGGCGCTGG AGGGGGCGCT GCGCACCGAG GAAGGCAGTA GGGCGATGCT
151 GGAGATAGAA ATGGCCGGTG GGAAAWHGCC AATCTTCTTG TTGGTGGCTT
201 CCTGAGTGGC TCTTTCGAAC TCTCGCACTT CATCCATTGT CATGTCTTCA
251 AAGGGAAAAG CGGAGAAAAG AATAGTTACT GTTCGGACBG GCAAATGGGT
301 TWHNHHNNCT AAATCTGGGG ACACTACCAT GAAGCTGATG CCTACCCAAT
351 CACAACTTG ACATGTCTTT GAAATATTAG ACCCTCATTT

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ug58rcon

1 GGAATTCCTC GGTCATCACT GGGAAGAGAG GCCCCTTTGT CTTAAAATTT
51 TTATATGCCC CAGTACAGGG GAAGGACAGG GCCAAGAAGT GGGAGCAGCA
101 TGGGGGGGGG TGATTTTCGG GATAGCATTT GAAATGTAAA TGAAAAAATA
151 TCTAATAAAT TTTTAAAAA GCCAGATGTT AAAATGTGAC AATAAATAAA
201 TAAACAAACA AACAAATAAA TGTTTTACAA CCTAAAAATT TTAAAGAAAA
251 AATGAAAAGT GGAGATGAGG GCCCCAATTT ACCTAATTTT ACTGCTGCAT
301 CCTATTGGAA AATAAGTAAC AAAAAGTGTG AAATTGTTGC ATGTTTTCTT
351 GGTATTTGTT TTAATGAATA GTTTCTAAAC DCAGAAATCC TTGTGGAGGC
401 AGCGCAGAGT AATGCATTGA TCATCA

ug59

1 TCTGAGACAA GGTCTTAGTG TACACGGCCT GCATGACCTG GCCTCCTGCT
51 TAAAGAAATC CTCTTACCTC TGCCTCCCAA ACGCTGGGAT TACAGGAACA
101 TGCCACCAGA TACAGCCAAA ATCATTACCT TTTCTTTCTT CTTTTCAGTA
151 CCAGGGTCCT ACACATGCTA GGCAAACCTCT CCAATACTAG CTACACCCAC
201 AGCTCAGCGA CACAAGCTCG TCTCTTGTC TGTAGTCTAC AGTGAAAGTT
251 GACTCAACTG AAATGTTTAC CTTGTTGATG CTGTAACACT GTCTGAGTCC
301 AGAAGGTTTT CAGTCATCCT TAACTGCAGC ACCTCTGGCA TNYNGTCTGA
351 CTTTCTACA CTTCTTCTG GAAGTTCTTC TATAT

ug60

1 GGCGGTAGGC GAGCAGCGCC TGCCTGAAGC TGCGGGCATT CCCGATCAGA
51 AATGAGCGCC AGTCGTCGTC GGCTCTCGGC ACCGAATGCG TATGATTCTC
101 CGCCAGCATG GCTTCGGCCA GTGCGTCGAG CAGCGCCCGC TTGTTCTGA
151 AGTGCCAGTA AAGCGCCGGC TGCTGAACCC CCAACCGTTC CGCCAGTTTG
201 CGTGTCGTC GACCGTCTAC SCGACCTCGT TCAACAGGTC CAGGGCCGCA
251 CGGATCACTG TATTCGGCTG CAACTTTTGT CAATGCCTTG AACTTTTA

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ug61rcon

1 GAATTCCTTTT TTTTGTAT TATCTGAAAT GATGTTTTGA AACTTCCTTTT
51 GTCTCTGCCT CACCCCCAAC CTACTCCCCT CTCCAAATCA CAACTAGGG
101 AATCTGGAAA CCAAGGAAAA TACCAAATCC AGATTCTTT TGAAGACCTA
151 GAACCTTTTA AGATGACTCC TTTCAGTGCT ATTGGTTTGG AGCTCTGGTC
201 CATGACATCC GACATCTTTT TTTGACAACT TTATCATTAK TGGTGACCGA
251 AGAGTAGTTG ATGATTGGGC CAATGATGGG TGGGGGCCTG AAGAAAGCTG
301 CTGATGGGGC TGCTGAGGTT AKTGATTGTT CATTAAATTGT GGATTTWTAT
351 CCACTTTTTG GGGGGAGACT GATTACTTTT TAAAAAGCAG

ug62rcon

1 GGAATTCGTC AGTGAGTGTT GACTCATCCA AATACCAAGT GCTCTGGTCT
51 GAAGCTGAGG GCCCTGCTGT AGGGTCCGGA GCCCCACACA CTGTGTTGAT
101 GGCTGTGGAC TGGGAGGAAA GGAGCTCGTC TAGAAGACGC TGGGCTGTGG
151 GGAGAATCTG CTGAGGAAGC TCACTGATAA GGTACTGAGC AAATTTTTGA
201 AGCTGGTCCC TTTGTAGCCG AGACAGGGAC TCTGAGACTG GAGCCCCGAG
251 GCAGACTGCA GATGCGTTGT GAATGCGGAA GAGGCAGAGT GCCACGACAT
301 GGGTGCACCA TTTGGCCCCG GCCCCACAGG TACAGCTACA AGAAGTGACC
351 CGGCAGCNGT CAAACATCAC AGCTACATTG TAGGCCCCC

ug63rcon

1 GGAATTCCAG ATATCTGGCC AGCATCCTTA GTGGCCTGTC GCTGTGAATC
51 ATTGAAATAA GCAGGGACTG TGATCACAGC ATTTTTTGCT GTGTGGCCCA
101 AGTAATTTTC TGCAGTCTCT TTCATCTTCA TCAACACAAA TGCTCCAATC
151 TGA CTGGAG AATAGAGTTT TCCATGAGCC TCAACCCAAG CATCACCATT
201 GGAGCGCACG GCACAATTTT AAAAGGACAC ATCTCTTAGT GTCTTCTCTG
251 TCACTCTCAG GGGTCACTCA TACTCGCTCG CTCCAATAAG CACGCTTAGT
301 ACGCATAGAA GGTATTGTTT GGATTGGTSA CAGCTTCCCG TTTT

46/472

ug64rcon

1 GGAATTCTAT TTGTAACCCC CTAATTTGTA ACCCTGTAAC CCAGGGAGGT
51 TAGACAACAC TCATTCCCTG GTGTCTTTTG TCTCACTGAT CAGTCAGAAC
101 CCAGCCTGAA AGCAGTTGTA GGAAGTGTCTT CTAAGCCCTG GGCAGCAGAG
151 GCAGGATTAG GAGTTCAAAG CAAGTCTTAA CTACATGGCA TAAAGAAAGT
201 AGGAGCTACA GGAGATGTTT CTCTAAACAG ACAGATATGA AATCTCTTTA
251 AAAACAGGGA ATGAAATTCT TAATTTTGGG GAGCAATATT GGAGAACTGW
301 TNCACCTAAG AGATCACCCA TGTGATAGTG AAAAATGAAA TTAAATCT
351 CAAT

ug65rcon

1 GGAATTCGGC TGAGGCTGCA ATGTGAGGTT AGATGTGGAG TCACGCTGTT
51 CAGGTTTCTC ATTAAGAGGA TTGGCAGTGA AATTGCCTTC CAAAGAACTC
101 TGCAGTGGGA TGTGGCACAA TTCTGAGAGT TGAAGTCTGAT GCATTCTTTC
151 AGGTTTTTAA CAGTATTTGA TTATAAACAT ATGGATATTC AATTGAGACA
201 ATTTTATTTT TTCTCCCTGG GTAGGAAGAA CCACTAAGTA AAGGGCAAGC
251 TGGGCTTGCC TGCTCTCTCT GTCCAGTTCT ACATTAGTCC AGTCTGCACA
301 GTGTCCCATG CTGCCTGTAA WCACAAATTG TGGTTCTTGG GTTAAGAGTC
351 ATGTGTTTTT CAGACCTTGA ACTCTCTACT GAGCAGA

ug66rcon

1 GGAATTCCCC GGCTCGAGCN NGCCGCTTTT TTTTTTTTTT TTTTTTTTTT
51 ACCATGCAAC AAAACCTTTA TTAACATTTT TTAACAGAGG TTCAGCTATT
101 ATTGAAACTT GTAATTTCTA AACTTAAATT GGGGCAAGTG GCTAGAGTGC
151 AGAGTAATGC CATCACTGCC CACTGGGAAT GCAGACCGAA TAATTAATAG
201 CCANNNCNNC AGACGGAGAG ACCAGGTGCA AGGTCGACTC CTTTCNRGAW
251 GGTGTGAATC AGAGAGAGT

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ug67rcon

1 GGAATTCCCA GAGGGGGGAT CTCATCAGGA AGGCGATGAG GATGCCTCGC
51 GCATGGAAGA GGTGGATTAA AGCCTCCTGG AAGAAGCCCT GCCCTCTGTA
101 TAGTATCCCC GTGGCTCCCC CAGCAGCCCT GACCCACCTG GCTCTCTGCT
151 CATGTCTACA AGAATCTTCT ATCCTGTCCT GTGCCTTAAG GCAGGAAGAT
201 CCCCTCCAC AGAATAGCAG GGTTGGGTGT TATGTATTGT GGTTTTTTTG
251 TTTGTTTTAW TTTGTTCTAA AATTAAAAGT ATGCAAATA AAGAAGATGC
301 AGTTTTATAG AATTCCACCA CACTGGCGGC CGCTCGAGCA TGCATCTAGA
351 GGGCCCAATH CGCCCTATAG TGAGTCGTAT TACAATTCAC TGGCCGTCGT
401 TTTACAACGT CGTGA CTGGG AAAACCTKGC GTTACCCAAC TTAAWCGCCT
451 TGCAGCACAT CCCC

ug68rcon

1 GAATTCCGGA ATGGCATGAT ACTGAAGCCC CACTTCCACA AGGATTGGCA
51 GCAGCGAGTG GACACTTGGT TCAACCAGCC GGCGCGCAAG ATCCGCAGGC
101 GCAAGGCCCC GCTGGCGAAA GCKCGTCGCA TCGCCCCTCG CCCC GCGTCC
151 GGCCCCATCA GGCCCATCGT GAGGTGCCCT ACAGTGAGAT ACCACACCAA
201 GGTCCGGKCT GGCAGGGGCT TCAGCCTGGA GGAGCTCAGG GTGGCTGGCA
251 TCCACAAGAA AGTGGCTCGC ACCATCGGCA TCTCTGTGGA CCCGAGGWDG
301 CGAAACAAGT CCACGGAGTC ACTGCAGG

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ug69rcon

1 GGAATTCCGG ATCTCTTCTG TGTTCCCACT ACTCAAGCAC CGAGTGGCGT
51 TCTATGGCGT CCGCCTCGGC TCAGCCCGCG GCCCTGAGCG CGGAGCAGGC
101 CAAGGTGGTC CTGGCGGAGG TGATTCAAGC GTTCTCGGCC CCAGAGAATG
151 CCGTGCGCAT GGACGAGGCT AGAGACAATG CGTGCAACGA TATGGGCAAG
201 ATGCTGCAAT TTGTGCTGCC CGTAGCCACA CAGATCCAAC AAGAGGTTAT
251 TAAAGCCTAT GGCTTCAGCT GCGACGGGGA AGGTGTCCTT AAGTTTGCCC
301 GCCTGGTCAA GTCTTATGAA GCCCAGGATC CCGAGATTGC CAGCCTGTCA
351 GGCAAGCTGA AGGCCCTGTT CCTGCCACCC ATGACACTGC CGCCCCATGG
401 GGCTKCTTCT TGAAGCACG TBTNGCAGCC TYCTGAGATT BGTTCTCGTA
451 TGTGKCCTG CCTGCTGTTG GARGCCGGCC CTTGTGTTCC AGAGGRTAAT
501 AAATGTACHT GTGACTCAAA AAAAAA

ug70rcon

1 GAATTCTAAC TATCTAAAAA TATGAATGGA TAACCAAAGT ATTCCAAACG
51 TGGCTATTCT GATCCACCGT TTGTTTTTCT CTAAAAAAA AAAAAAGTAT
101 GTACAGAAAT TGTATAAAG ACTTTGTGAA TTCAATGAGA GTTAGCTTCC
151 AGTCTTCACA TCCCAAATGC TGGGTTTACA GTTTTGGCTC CTTTGCATAT
201 TTGCCTGTAG AATTAAGACT CATAATTTTT GCCTTGCTAA CAGAACACAC
251 TTAAATTAT GAAAAGCCCT CAACATATAC CAAAGTAAAA GACAGCATT
301 TGAAATTAGC CAAGGCCAAC ATGATTCTGC TCTCTGGAAC CAGTGTAATC
351 TAGTGAATTT GGTGCTTGTG GTGAGTGAGA AACGACAATG GGAAATGTCT
401 ACTGTTTGAC TTTTGAAATC AGATTTATTC AGTGGTGGCT GGACTTGGGG
451 ATGGGTTCAA TCCACCATTG YCTGGCACAT GTTAATTACT AGGTAAAGGT
501 CAAATACAAT KTHAGACCTA AAGCCACAGG AGGAGGATGC AAAACGTTCA
551 ATTCCAAAGA GAACAGTTTW GWGTTCAACA ACATGGGACT TTWCCTAG

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ug71rcon

1 GAATTCGGAA TGGTGGCGCT GTGCCTGTGA GCTTCCGAAG TTAATGGATT
51 GTTCTGGCTG TGACGAACAG GATGACGGTG TCAGGCGACT CCAGCCAAAA
101 GCTTTGCAAA GTGGCTCGAG TCACAGTACT CTGATGCTGA GGCAGGAGGG
151 CTCCCAGTTT GAGTCAGCTA GGGCTCAAAC CAACCCAAAA AAGCCTGCCA
201 AGTGAAAAAA GACACTTTCC AGAGCTGTTG CAAGGTGCAG CTGGCAGCAC
251 AGCACAGCTC AGCCCATCCC AGCCCAGAAG GAGCAGCGCC ACCCAGAGGC
301 GCAGGGAGGA AGTAGGAAGG CTGCAGGGGG CAGGCAGCTT TCCCTGGGAC
351 AAAGAAAAGG AACATTTGGT CTCTCAGTGT CTGCTCTTCT AGATCCAAAT
401 ACACAGTACN CCTTTGCTGG TGTTTTGTTT TGAATTAAAG AATATTAAAG
451 TTTGGGGGAA TTCACCACAC TGRC

ug72rcon

1 GAATTCGTCA ATAAGGTATA GGCTACACCC TTCTCACCAG CTCTTCCTGT
51 CCGGCCAATC CTGTGAGTGT GCGTATCAAT GTCCCGTGCT ACATCATAGT
101 TAATGACTGT CTTAATGGAA GGAATATCCA GACCACGGGC TGCAACATCA
151 GTGGCCACCA GGACGGGGAT GTCCTTTTTC TTAAAATCTG AAATAACCTT
201 GTTCTTTTCG CTCTGATCCA TGTCCCATG GAGCAGACCA AGATTATGAC
251 CCTCCTGCTT CAGGTTACTG GCTAGCTCTT CAGCATTGGC TTTCTTAGTA
301 ACAAACAAGA GCACACTCCC CGAGGAAGTA AACTCCACCA GACGCCGAGT
351 CAGCCAGTTC CATTTACTKG GTCCGGAATG GAGAATYTCC ACAATCTGTG
401 TCACATYTT

50/472

ug73rcon

1 GGTGACACTA TAGAATACTC AAGCTATGCA TCAAGCTTGG TACCGAGCTC
51 GGATCCACTA GTAACGGCCG CCAGTGTGGT GAATTCCCCG GCTCGAGCNG
101 CCGATTTTTT TTTTHTTTT TTTTTCCTAA CTAAAGGCT TTATTGACA
151 CAAAATACAA TATGGCTGCG GGAACACCAA ACTCCAAAAA CAAAGGAACB
201 AAAAAAGGAC CATGGTTCTA TCTAATGTAT AATTAACAGG AAGTCACTAG
251 ACGAGTAACA GATGGGTACN CCTTGCGGGA AAGTCTTTCC TAATKCCCAT
301 ACTTCTGGAA CTCCCACTCT CTGTTGTCCA A

ug74rcon

1 GGAATTCGTT TTGGAATAAC TGGTCAACAA AAATCAAAG ATGTCTGGGG
51 GGTGGGGGGA GACTGCCTGG CAGTACAGGG TGGGGGAGAA ACTCCATACA
101 ACAAGACAGT GCAAATCAGC AGGAACTGC ATGTGTGCAC TCCAGACAGC
151 CAATCCAGGA GCATGCTGTG CATTCTGGAA CCTCCAGAT GAGTGCAGAW
201 WTDTGGAAT GCCCCATGCA TTCACCTTTA ATGCAACTGC ACCAGCCCTA
251 CTGTGAGTGA TGTGATCTCC CTTTAAAAAC CACCCACCAT CATCACTGAT
301 TCAATTATNN YYGCAAGTTG TATCTTCAAG GACGGAAGCY CTGAAGTGAC
351 CATTACNAD CTTATAATTT ATA

ug75rcon

1 GGAATTCGTC TACAGCAACC AAAGAGATAA CAACAGTAGG GTCTGAAATT
51 TCAAGGGCTC TGGGGTTCCA GGCCAGTATC ATTCACAGAA GGGGATGGGG
101 AGGAGGGCTC CAGAGGCTGC CAGGCTAAGG CTATACAGAA GGBCCCTCAT
151 GAAAAGAAGC TTTATGAAGT TTCTCCAGAA ACTCAAATYT GGAGATATTT
201 TTAAAATNNC TCAGGCTGTC CCAGCAGAGA ATNCCTGTGA TTATKCCTGA
251 GAACAAAAGG RGACAGGCCT CCTCCTGTGT GGGAGCTGTA CATKCYCTCA
301 CAGGKTGTCT TT

51/472

ug76rcon

1 GGAATTCCAG CCCTACATCA AGAGAGCCGC AGCCACCAAG CTTGCTTCAG
51 CTGAAAAACT CATGTATTTN NNMMCTGACC AGCTGGGACT GGAGCAAGAC
101 TTTGAGCAGA AACAGATGCC ANAHNGGAAG CHGCTGGTTG ACRGTTTNMT
151 TCTGGGCATT GATGTTAGCA GGGGCATNNA HCHGGAACHT CGATGATCAG
201 CTCAAATTTG TCTCCAATCT CTACAATNAN CTTGCAAAAN CNAAAANNCA
251 TAGTGGTAGT NCTGACTAAG TGTGATGAG

ug77rcon

1 GGTGACACTA TAGAATACTC AAGCTATGCA TCAAGCTTGG TACCGAGCTC
51 GGATCCACTA GTAACGGCCG CCAGTGTGGT GGAATTCGGG TAAGCACACT
101 AGCAAAAAAA ANAAAAAAA AAAAAAAAY NCAACAAAA GAGTCTTAGA
151 GGAAGAATGA AGAAAACATA CAATACTTTC AATTTGAAGA CAGATGCACA
201 ATACTTTAAC ATATGCCAAA GATTAAAGGG AAAAGATTAC AAAATTATAT
251 CACTGCAAAT TTTGTTGCTG TGACAAATTA AAAGCAGTTC ATACCAGAAA
301 CACACACAGG TGCAGACCGG TGAGCACACA GGCACCATGC ATTGACAGTG
351 ATGTTGATTC TTAAAGTAA TGAGCCNTGG

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ug78rcon

1 GGAATTCGTC ACTGAGTCCT CTCTTCATCT ACATTGTCTA CCAGCCACTA
51 TGAAAGCCTG AGCCCGTACT TGTCAACTAT CCAGGAGGAT TATCCACCT
101 TGTTACCTCA CCTCTAAAAG CAGATAACAG CCTGCTGCTT GTTTTTGTAA
151 ATAAAGTACT ATTCAAACAG CCACACATAC TCAATTTAGC TATTGTCCGT
201 GATTGCTCAC AGACAAGACA AGTTGTTGAG ACAGACAAGT GTGGTCACAA
251 AGCCTAAAAG TATTACTAT TTGGCACTAT AGAAAAAATG AGACCGCTGG
301 CTTTATTTAG AGAATGAGAA GCCGTTTCGCT AACAGGGATG ATGATGATGA
351 GTGTGAGGAA GGAATAACTT CCAACMGTTG TGACAGCTTA TTTTATAGAA
401 AACCGTCCCA GCAAATTTAT WGTCACTGTC CATTCAATTA CVGCTGGTCA
451 TGTTTCATGTT CCCAGTAGCA GGTCATCTGT CAATAAACTC CTGATACCCA
501 GAGCTGTTYC CAGTYCCACT CHAACTTTAG CACTACTGTT TACCTAGGCC
551 CTCACCCT

ug79rcon

1 GGAATTCCAA TTCAGAAAAA AAATTCAGAC TGAAATGACT AATCCCATAT
51 CTCATAACCC CTTCAACCAG TAACACCCCC CCCCAAACC CATTGTCTTC
101 AGTGTGTCAG CTCACTAATC TAATGATCAG ATCAATCTAT GAACTCCACA
151 ACAAATAGC TACTGAGCAG CCCTTCTGA GAAGTAAATA TTCTAGATTT
201 TGGGAACCAG TGCCGAAGAC AGAATGCTTA CTGTCTAGAA GTTTCACCTT
251 CCTTATGAGG GGGTTGAGAA CCAAGATGAC TATTAATGTG TGATGTGATC
301 CMATAAAAGC TGTKGGGAAA TCAGGTTTTG AGGAGGGGAA TAGTTGTGCA
351 AAAAAAAAAA ATAT

53/472

ug81rcon

1 GGAATTCGCA GATTCTTTT GGACAGTGAT GGGAAGAGTC TCATCTGTAA
51 AGTGAACCTA TCAAAGATCA ATAGCAAAGT CCTGAAGAGT GGTCAGCTGG
101 AGGATACATG TCTGGTAGAG CTCTCACTGG CCCTGGACCT GCGCCTACAG
151 GTCAGCGTCA GCAGTTGGCA TCTGACGGCT GTCAGTGTGG ATGTGTGGAC
201 ACTCCATGCT GAGCTGCATG AAGGTCTCTT CCATAGTCAG CTAAGTGTGC
251 ATGCCCCAGG CCGGATTTC AAATCAGTTT CTTGTTTCTG TTTGACTGAG
301 AACTTTGCTG AACCAACTCT GCCTGGGCCT ATACCTCCTC CAGCGGCTGC
351 CAGACCAAGT CAAGGTGAAG ATGGAGAACA CMAGTGTGTG TGTTGTCTAT
401 GAACAGTCAA AAACBGCCT TGAAGTGTGAC ACTGAAGCTG CTGCAWTTTC
451 CTGTACCACC GTGATGAGGA CCAACTGCCG CTTCGAAGCY TCACAGCAAA
501 CTATGATATB GCACACGA

ug82rcon

1 GGAATTCCCA GGGTGCAATT GGTAGTCCAG GACCTGCAGG TCCCAGAGGA
51 CCAGTTGGAC CACATGGACC TCCTGGAAAA GATGGAACAA GTGGGCATCC
101 AGGTCCTATT GGACCACCAG GTCCTAGAGG AACAGAGGT GAAAGAGGAT
151 CTGAGGGCTC GCCAGGCCAC CCTGGACAGC CAGGACCCCC TGGACCCCCCT
201 GGTGCCCCCTG GTCCCTGCTG TGGTGGTGGT GCTGCTGCCA TTGCTGGAGT
251 TGGAGGTGAA AAGTCTGGTG GCTTTTCACC CTATTATGGA GACGATCCAA
301 TGGATTTCAA GATCAACACT GAAGAGATTA TGTCTTCACT CAAGTCTGTT
351 AATKGACAAA TAGAGAGTCT TATAAGCCCT GATKGKTCTC GAAAAAACCC
401 TKCTCGGGAA CTGCAGAGAC CTAAAWTTC TBBCACCCCG NDCTCTAGAG
451 TGGAGAATAC TGGNGTGATC CTAACCAAGG CTGTGAGAT TGGATTGCTA
501 TAAAAGTATT CTGTGACA

54/472

ug83rcon

1 GGAATTCCTC TGTATAGCCC TGGCTGTCCT GGAGCTCACT TTGTAGACCA
51 GGCTGGCCTC GAACTCAGAA ATCCGCCTGC CACTGCCTCC CAAGTGCGGG
101 GACTAAAGGC GTGTGCCACC ACGTCCAGCC TTGTTTGTCT ATCAGTTCTA
151 CAGCACTCAA AGATAACCTT TTGAAATCAA TTTGCTATTT GGGTGACACA
201 ATTCAATCTT CATTAGCAA CTGCAAACCA ATTGAGTTCT TCATGCCAAC
251 TCAGAAATAC ATGATTACTA GCTTTTACAA GCTGAGCCTC TCTACAGCTG
301 CTGGCAAAAA TGGGGCACAG GGGAGGAGGT GATTTTAAAA CCTGCCATTC
351 AAATTATCT AGTCTWAMCA GTAGTCAGAG GGAAATATAC TTGAGAACAG
401 GGTAAAACCA GCTTTGGCCA CATTAAAGTTC ATGTTAGTGT AGAAAATTTA
451 AAATCACMAA CATCAAATCT CAGTCTACTG TGCAAATAT AAAGCCGAAT
501 TTTACCATTT ATACTCAGTT CTTTGGAKT CAATCTCAGC AACATTTACT
551 AATAA

ug84rcon

1 GGAATTCGGC GCCTTGGATC CATTTCATC TGGTTCTKCT GAGACGCGTN
51 TNGCTCCCTC CCCGCAACAG CCAAATGGT GAAGCTGATC GAGAGCAAGG
101 AAGCTTTTCA GGNNNVHCCT GGNCGCNGCG GGAGACAAGC TTGTCGTGGT
151 GGACTTCTCN NCTACGTGGT GTGGACCTNN CNAAATGATC AAGCCCTTCT
201 TCCATNCCCT CTGTGACAAG TATTCCAATG TGGTGTTCTT TGAAGTGGAT
251 KGTGATGACT GCBRGGATGT

ug85rcon

1 GGAATTCGTG ACTTGTCCAG AGTCTCAGCG CTGATAAAGG AGAAGCTGAA
51 AGTCCTCATC TCCAGCAGCT TKGCTGCTT CYAGAGTCTG GGTCTTGAA
101 ACTGGGAAAG GAAATTCCT TCTGACCAGA AGAGTGGAAA GGGAATCTGT
151 TTGAACTGGA CAGAGTGGGC AGGGTKGGAG AGGAGA

55/472

ug86rcon

1 GGAATCGACG CCCAGGCTCC ACAGGTCGCA GCGCTTGTCG TAGATGCTGG
51 CCTCTTCACT GAAGGCCTCC ACCACCTCTG GNBCCATGTA CTCAGCTGAC
101 CCACACGGGG TGAGCAGCTC TGGTGTGGAG ATGGGGGAGC AGTCTCCATT
151 GAGTTTGATA CCACTGCCAA GGTCGAAGTC GCAGATCTTC ACTGGCGAGA
201 CCTGGTTGGG GTGCTCACAT AGGATGTTCT CTGGCTTTAG GTCCCTGTNG
251 GCGATGCCTT TGTTATGCAG GAAGTCCAGG GSACTGGCCA CGTCCTGTAC
301 TACCACBSBG GSCTCCAGCN CGTTAAAGTG GCGCCTTCTA TGGATGTGGC
351 TTAGGATGGA TCCGCCACGC ATCTTCTCAA ACACCAGGTA GAAACGGTCC
401 TCCTCCTCAA AGADCTCAAT CAGTTCTAGA ACATTCCYAT GTCCCCCSGC
451 AC

ug87rcon

1 GGAATTCCAA CGAACGCTTT GCCACACTCT GCACAGACGT GGA CTCTGGG
51 ACCGTGGGTG TGCAGATGCT TTCTCATAGC AGAGTTATCC CTGAACATCT
101 TTGTGCAGCC TTTATGAGGG CAAGCTAATT GTTCTTGGAG CATCATCTTC
151 TTTAATTTTT CTTGGCTTCA TTCTGGCAAA TTCTGCCAGT BBCTTAGGGT
201 CTGAGAGGTC AATTGGCCAG GTATCCCTYC CAGGDGGGAG TTTCTTBCCT
251 GTCATATATT CCAGAATWAT CAGGAGGTG

ug88rcon

1 GGAATTCGAA CGYYGGCAGT AAAGCAGTCG CTGCTGGACA AGGTCTGACC
51 CCCACCACTG GCCCACCBS TTCTACCACA AGGACTTBNC CTCTGAAGGC
101 CAGTGGCTAC AGGTGGTAGC AGGTGGGCTG CYCTACCCCG TCCTGGNNTC
151 CCCCCCTCCA SCCTCCCTTC TCAGTCCCTA ATYBGCCTCT CCCACCCTCN
201 CCCCAABCAT TBCTTCATCC ATAAGTBGGT CCCTTG

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ug89rcon

1 GGAATTCAGA ACCTGGCGGA CGAGGAGCCC TGGGCAGTTG GTATGGGCAG
51 TACAGGAACC ATTCGACTG TCTGGTCACC AAGTTTAAGA GCAATCTAAT
101 GAAGTGGGGG ACACTGTAAG CTAAGTGAAG ATGAATGTGT GGKGGCTTTT
151 WCTCAACAAC CATTCCCCTA GAGTCTAATA TAAAAGTAGA TTTACATTTG
201 TGGGTAATCT GAAGCTGGTG ATTTCTAGTG CCTTTGGTAA TAATCAATAA
251 CNCAGCAGTT GCGTGGCAGA KKGATCCMCG CATGGATAAA TACAAATATT
301 AAATTAGCAT AATTTTTTAA CTTTTTGTAC AAATATACAT GCTTTTTTNC
351 TTTTCTCAT CT

ug90rcon

1 GGAATTCITT TTTTTTTTTT GTTTGTTTT GTTTGTTTT GTTTGTTTT
51 TGCTTTAATC ATAATCAGCC CAGAGCATTT TTTGTAAACA ATGCCTCTGT
101 TTTCATGAAA GTTCATAACA TCAGGGTTTT TAAAAAAAT TAACTAAGGT
151 GCTTTTAGAG TTGAATCTGT GAGTTACCGT CAGCACACTA GTGGGCTAAG
201 AGTGAGCAGG GTGTTTTTCAG AGAAACAAC KKYCCCCCA NNNCACAAC
251 TATCTTTTAA ACTTAGAAGT AACCTGTTGT HCCCCAGCCT GCYCTTTGTC
301 ACCTGAGTKC CCAGA

ug91rcon

1 GGAATTCAAT AGATATTGC TAGACTTACC AATTCAAAGW TTTTGTCTT
51 CCTAGGTTGT CAGGGAAGTA TCACTACTAC YCTTCAGTTC AGAATTGCTG
101 AAGTAACTGA TTGTYTGATG ATTTGTGAAC ATGATCTTAA CTATGTGACT
151 AAAATATCAG ATCATTACAA TACTKCTCAA TTGATGGATA CATGTTGAAT
201 ATCAGTGTAT WCTTTGATGT TTTTWATTAC TTKACYCTTT TTTTAAACCT
251 A

57/472

ug92rcon

1 GAATTCCGAG CGGGCGAGCG CCGGGAGGGG GCCGGGAGCA GGGCAGCTCG
51 GGAGACCGGA CGGTAGCGGC GGCGGCGGCG GCGGGCTCGG CGCCCTCTTC
101 TCTGCAAGCC ATGTTTGCCA AAGGCAAAGG CTCGGCGGTG CCCTCGGACG
151 GGCAGGCTCG GGAAAAGTTA GCTTTATACG TCTACGAATA TTTACTGCAC
201 GTAGGAGCAC AGAAATCTGC ACAGACCTTC TTATCAGAGA TTCGATGGGA
251 AAAAAACATC AACTGGGTG AACCNCCTGG GTTCCTGCAC TCGTGGTGGT
301 GTGTATTTTG GGACCTTTAC TGTGCAGCTC CTGAAAGG

ug93rcon

1 GGAATTCAAC AGAATACAAG AAATGGAAGA GAGAATMTAA RGTGCAGAAG
51 ATTCCATAGA GAACATCGAC ACAACAGTCA AAGAAAATWC AAAA

ug94rcon

1 GAATTCGAAA AAGGAAACGG AAAAATTCTA CTTCCGGGTC AGATTTTGAC
51 ACTAAAAADG GAAAATCAWC AGAAACCTCT ATTATCTCTA AAAAGAAAHN
101 CCAGAACTWC TCAGAGTYHH CTAATATGA CTCAGAGTTA GAGAGAGAGA
151 TAAAAACCAT GAGCAGAATT KGGGCTGCCA GAAAAAGTDT TCCAGAGAAA
201 AAAGAAGAGG ACTCTTCTGA AGATGAAAAA CAGGGCAAAA AAGTAGTGGA
251 TAATGGAGGG CATGAGAGGG CGAAGACMAC MCMAGAAGGG TCATCTGCTG
301 ATGACACTKG TGACACTGAA GGC

58/472

ug95rcon

1 GAATTCATGT CAAACAGGTA GTCATAACAC TCACACATGG TTTTTCCTTT
51 CTCCCATGTT TCTCCCCACA CGTACACCCC ATGAYNCYGG ACAAGAACYG
101 CACAGGAGTC TKGGTACTCA TTCATGGCAT GAGCCATCCT TTCTTTKAGA
151 TCCTTCTCTT CAGGAGTGTT CTCAATAATH GGTWCCACTA ACATATCATC
201 GTATCTGTAA TAGCCTCCTG AGGTACATTT CTTATTCTT TTGATCATCT
251 CTTGATGTGT AATTTTAAAC TCCTGTCCTG GAAACAGAAG GGTAGCCATC
301 ACAGCAGCTT TAGAGTGGGT ATGAATCACT GCGCCAGCTC CCTCTCATGG
351 TATAAGCATT CATGAAAAGA GGAGTGCAT GGCTTTTWTT CAGCTTCTTA
401 GA

ug96

1 GAATTCGTGA TCATGAAGCC TAGTGCGCTC ATTACACAAG GGGGGGGGAK
51 GKCTCAGGAC CTCTCCACCC CGGGAGTCAT TTCCCTGTGT TGCTGTGGAA
101 CTAATTTGAA AAGTAAAGTC CAAGGAAACA CTGCTCTGTT TCTGAGACAT
151 GAAGAAATGA AAACACAAGA CAAAGCAAAG AGCGTGCGCA TTCTCTGGCC
201 CAC

ug96rcon

1 GGAATTCGTG ATCATGAAGC CTAGTDNNYT CATTACACAA GGGGGGGGGA
51 GGDTCAGGNC TCTCCACCCC NNNAGTCATT THCCTGT

59/472

ug97rcon

1 GGAATTCGGA AGCTCCGCCC CGGCTAAGGG GGCCAGCATC CTGGGGCCTG
51 CACCCATCCT GTACAAGATA CTGCCCAGAG GGTTCCTTCA AGGCCTGGGC
101 AGTTCAAACA GCCACACTGG ACAGACAATA AATAATGCAG CTGCTCTCTG
151 GACAGCCTCC TGTGACCTAT CTCGTTTCGA GCCACTCGAG TTTCGGCCAG
201 CTTGCTTTGT TCAGAATGCC AAGCCCCGGC TGGGTTTCTG GCCACGTGGG
251 TACTATGGTC CCACTGAGGG CCAGTCTGAG CCTGCCTAAM AAAGGCTAAG
301 TAAGGKGGCT ATCCTGAAGA GAAWGCCCTA CTTACTTTGA AA

ug98rcon

1 TGAATTCGGC CAAACGACTC CTGCTGGTCT CAACCCCGTA CTGCCGGGGG
51 CAACTAGCTT TTAAACGCCT TTCTGGGCGG TCAGCTACCA AGTGCCTGAA
101 GACCTGGTGT ATGCAGCGGA GGGGCAAGCT GCCTGGGCCA CTTACGTGGT
151 AGGTGCCTAC CACGGGGACA TAGGGGCTGG AGCGGCAGAA TTCGCTTATA
201 CTGGTTGGGA GGGTGGGAGT ATCCACTGTG GCTAGTTCAC ACCCTGCTTC
251 CCCTCCCCAA CAAGCACAAG GGGTGTGAGC CTCAACCCTA AACAGGCAAG
301 TRTATRATCG TTTTACTCTG GGCACACCTG AWTATGGTTT T

ug99rcon

1 GGAATTCCGA GCGGCCGCTT TTTTTTTTTT TTTTTTTTAA AATCTCAGTA
51 TTATTTAATG AGAACGCCCC ACCCTGCCAT GTACAGGGTG CCCCCTCACTC
101 GCTACTCACC CACCATGTTA AGGAAAAGCA CCAGGAAGTA CAGAGGGTCC
151 TCATGGCTGC TCTCCAGAGT TATAATTTAA AGGTATTCTT CCATGGTAAA
201 ACTACAATAG TTACATACCA AGGCAATACT ACATGCTTTA CATAGTCCCA
251 TGAAAAAGAA TTCAATTGAG TCTAATCCCT GATGCAAGGC ACTTCAAAGC
301 ACCCGCGATA AAATGCCCAT GTAAACAGCA GTGCAGTTGC ACCTTBCCAA

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ug100rcon

1 GGC GCGGATT CTTTATCACT GATAAGTTGG TGGACATATT ATGTTTATCA
51 GTGATAAAGT GTCAAGCATG ACAAAGTTGC AGCCGAATAC AGTGATCCGT
101 BCNGCCCTGG ACCTGTTGAA CGAGGTCGGC GTAGACGGTC TGACGACACG
151 CAAACT

ug101rcon

1 GGAATTCCGC TTGACCTGCC TTGGGGTATG GGTACTGCTT TGCTTTGGGG
51 TACAGTGCTC CAGTAAACCG AGGTATGATC ATGTTAGGCA CCAACGAGTC
101 ATTTATCATC AGGAAGGCAA GTCTCTCTCC ATCGGGGGAC CACCAGTGGG
151 CGATATGAGA ATGCAGAAGT TCTTCTAGAA TAAATGAGTG TTATTTTACA
201 TCAACTTCAT ATAACCAGTC AGCAATCCCA TTAAAAATAA TGCCTTCCTT
251 TCCTGAAGAT GTTAGTCGTA AAGAACTGCT CTTGATATCA GGTTGATAGT
301 AGATATTGTT TTCAAAAATA TAAATCAGCT GCTGTCCTTG CACACCCCAG
351 GGC GCCATAC TGCAACACTT GAGTTCTCAA CTTCTGGGGG ATTHAACTTC
401 CACAMYTTCC C

61/472

ug102rcon

1 GGAATTCCTC TCTCTCTCTC TCTCTCTCTT TTTCTCTCTC GCTCTCTGCC
51 TTTCTCTGTC TCTACTCCCT CAACTCTCTT CCCCATGCCC TGAATAACCT
101 CTATTCTATA CTACATGACT GGTCCCTCAG GGGGAAGGGG TGCCTCAGCA
151 TGGGCCCCGCA GAGGTACCCC CTTCCCCACA CCTGATGGCA CCAAACATAT
201 TCCTTCTCTC CTTCTCTCCC TGCTCATCGC TTGAGGTAGC ATGGTTCTCT
251 CTGGGAAGCT CTGGGTGCTG AGTCAGGGCT CTGCTCTGGC CCTCCCCTGA
301 AACTCCATCA GAATCTACAT GGCCCTGGAC TGTGGCAATT TGCTTCTTGG
351 ACCCTAACAA GACTTTAAGT TYCTYGAAGG GCAAGGTTTC TTCCCACTAA
401 ATCCAGCACA GGGCAAGACA CATAGTAGGT GTTCCACAAG CACCTAATGA
451 GTGCTCTGGG TTGTTGGGAT TTTTTTTTGT TTGTTTGTTT TGGTTTGGG
501 KTTTGTTTGT TGGTTAGTTT GTTTAGYNSG TTTTGCAACA AKGTCTCAAG
551 TGACATA

ug103rcon

1 GGAATTCAAT CATATTTATT GGATCAACAA ATCTCCTAGK NCCTTTTACC
51 ACATACATTT ACWCCTACTA CCCAACTATC CATAAATCTA AGTATAGCCA
101 TTCCACTATG AGCTGGWGHG GTAATTACAG DCTTCCGACA CAACTAAAA
151 WHYTCACTTN CCCACTTCCT TCCACAAGGA ACTCCAAATT TCAMCTAAWT
201 TCCAAATACT TAATTAATTA TTGAAACAAT T

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ug104rcon

1 GGAATTCCAG ACTTGTGCTT CTTGATGTCT GTTTGATGGG AGCTACTGAC
51 AGGCTTAGGG CTCAACCAAG TGGCTTGTAT TCTGAAACT TCTACCTGGT
101 TATGCATATA ATTAGTAAGA CACTTAGAAT GAGCCTAATG TGAGCCTGGT
151 GGGTGGCTGT CCCGCTGAGA AAGGCCTTTC GCAGTTTAGA GGCATCTCTG
201 TTCTCTCCTT TATAGGTTGC CTACATAGAG AACTGCTGTC CTTTCATACT
251 GCTCTGTTGT AACCGTTTTA TCTTCAGTTT CATTCTTGT ATCAAGATCT
301 TAAGCAGCAG CAGTTCTCAA CCTGTGGGTA GTACGCAACC CCTTTGGGGA
351 GGTTGAATGA CTCTTTCCCA GGGGAGCGTA TATTAGATTA TTTACGTTAC
401 GATTCATAGC AGTAGCAAGA TGACCWGTWA TAAAATATTT TTATGGTGGG
451 GGGGCCACTA CATCARGGGG CGTACATTAA ATGGTTGTAA CATTWGCAAG
501 GTTGAGTACT CGCTCCATCT TAAAACCA

ug106rcon

1 GGAATTCCTC CCTTTGTCTG CAGTTTTTCC CTTGACATT CATTATTCA
51 TTCATTATT CATTAGTGA AGAGCTTCGT GTYCAGTATT CCAGACTCCG
101 ATGAAAHTYG AAAATCGATY CTTCTCKKT CTAATTATTG TCTAATCA

ug107rcon

1 GGAATTCGCG GGTCTAAAAG TTCCCAACAC TTGGAGGGCT GGGTGGGGGC
51 CGAAGCTAGG GCTGTGGGAA CGACAACCTC TGGGTGTATG ATGTTGATGG
101 TGAGCGTCTG CTGCACACCT ACTGTGTGCC AAGCACTTGT GCGTGTTCTA
151 CATACTAAAC CTCGTGACCA TGGAACHVGC TCATTTTCCC AATCCGTCGA
201 CCGAGGAAGC AGAGACTGGA TGGTTTGGCC AGBBTAGAGG GCAGTGGGGA
251 TTGGTTTGGG CTGAGGTCTG CATCTTACC TTCTGAGTTG CAGATTTCTA
301 AGAAGTATAC TCTGATCTGA GCACGGCAGG AGGGCAGAGG AGGCCAAGCG
351 GCAGGCATGG GTGCACCCTA CTGCCATCTG GGCCGGCCTG GAGACCAGGA
401 GGCTCTGAAC GTACACACGA ACGCG

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ug108rcon

1 GGTGACACTA TAGAATACTC AAGCTATGCA TCAAGCTTGG TACCGAGCTC
51 GGATCCACTA GTAACGGCCG CCAGTGTGCT GGCGCGGATT CTTTATCACT
101 GATAAGTTGG TGGACATATT ATGTTTATCA GTGATAAAGT GTCAAGCATG
151 ACAAAGTTGC AGCCGAATAC AGTGATCCGT GCCGCCCTGG ACCTGTTGAA
201 CGAGGTCGGC GTAGACGGTC TGACGACACG CAAACTGGCG GAACGGTTGG
251 VGGTTCAGCA GCCGGCNCNTT TACTGGCACT TCAGGAACAA GCGGGCGCTG
301 CTCGACGCAC TGGCCGAAGC CATGCTGGCG GAGAATCATA CGCATTCGGT
351 GCCGAGAGCC GACGACGACT GGCGCTCATT TCTGATCGGG AATNCCCCG

ug109rcon

1 GGAATCTTCA CGTTACCCTG GAAAGAGAGC TCCAGAGCTT GCATTTAAAC
51 TTCTGGGCAT CTCTGCTTCA ATGCCTTTCT AACCAGTGGC TCTTTTTTCG
101 GTGCGGAAAC ATAAACCAGT GCACATCCCA CATACTGCCA AGAAGTGAAA
151 GGGCTTCATA AGGAAGATGG GCACCAGGGA GGACCCTGGG CTTYCTCCTC
201 GGACATGAGC TTGCCACCTG KGTCATATGC TCTGDAAGGT TTCTTCTGTG
251 ACTGAGACTA GTAAACATTT TATTCCTGAG AGAGATGAGC TGTCTGKGCA
301 TGGGGGGTGA CTTCACTAGA CAGGAGAGCC GACATGATGG CTTTA

ug110rcon

1 GAATTCTTTA AAATCACTAA TCGACCTGHC GHCCTCAGMT TAGACCACAT
51 AGRCAACTTG ATTATTG

ug111rcon

1 GGTGACACTA TAGAATACTC AAGCTATGCA TCAAGCTTGG TACCGAGCTC
51 GNGATCCACT AGTAACGGCH GCCAGTGTVG TGNGAATTHN CGCATCCACC
101 AAGATGNGAA TWHNACATNC CTTGTGAATA TNGAATGGGN NTATACCAAN
151 GGTNCTCGGN AWTGRRSC.T CTTTSTCTT AGG

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ug112

1 GGAATTCGAA GGATGCCCTG CTGAATCAGC TGTGAGCTCG GGACGGGGCA
51 GGTGGTGCTG TTGCAGGCAG GGACAGAAAT GCTGGGAGGA AGGTGACAAA
101 TAGTGAGCTT AGGCTTCCCT CGGTCAGTTA CAGCTGCCTT AACCTGAGG
151 CGGAGCAGGG CATGTGGGTG GTGAACAAGG CAGTGGACCA AGCAGAGCGC
201 TGCCCTGTGA GAAAGTGCAG AGGACAGTAC AGTGACAAGG ATCCAGAACA
251 GGGAGCCTGA AGTCTTCCAC CGAAATGGCA TTTGGAGGAG TTKCTTCAGA
301 GAAGCATTTA GAGGAAGCCA GTTGGACAAT TGGCCT

ug113rcon

1 GGAATTCGAA GCTTCTTTTT GCAAGAGATG GTCATTAAAG ACAGTTACAW
51 CTGGTCACAC AATGCATAGG NCCACTGACC ACAAAGTGTC CAGAHCCAAT
101 TAATATAT

ug114rcon

1 GGAATTCCCG GCTCGAGCGG CCGCTTTTTT TTTTTTTTTT AAGACTTAAA
51 ATTGAATTAG TATTTGTACA GAAAGGTGCA GGTGGAATAA CTCCCTCCGG
101 CCTAGGATCA AAGTTATGCG GAGAATTCTT GATGGACCCT TCCCCTGCCC
151 CCAGTGGTGG CCCGAGTTGT TAAGTGCGAT TGGTTAGAGT AGATTCCAGT
201 CGGGTCATTG TGGTGGAGGA GTGGGGGCAG TGGCAGGTAA GGGGGCTCAG
251 TTGCTGCAGC ACTGGCTCCG GCTGGCTGGG TTGCTCTCCT GCAGATCCAC
301 ACCTCTGGTT CGGCCCCGAG CCCAGCCGC ATTCTGGGGC TCATTCTTGG
351 GAAGCTTCTT AGCTATTGCC ATGAAAATTT CATTACGTT CATTGCAGTC
401 TTGGCAGACG TCTCCATGAA GAGCAAGCTG TTGTCATCTG CATAGGCTTG
451 TGCTTCCTGA AACTCCACAG CTCTCTTGCT GGCCAGGTCT GCTTTGTTCC
501 CCGCTAGTGC AATGACGATG TTTGGGGCTG GGCCTGCCTC TGTAACCTCT
551 TCACCCAATT CTTAGCCCGT GCAAHGTAT CTSBGTTCCG TGATGTCATA
601 GACCACA

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ug115rcnlo

1 GGAATTCTTG TTTTCCTCCT GAGACACAGC CTTGAAAGCA GTCTCCTGCC
51 TCAGCCTCCT GTGCAGAAAT TATAGATGTG AGCCACTGCA CCTGGCTTCT
101 AAAACTTTTG ACTATGTAGG GCTCTGTACT GTCATTCCTT CTATATTCAT
151 TGACAATGGA TTCCTGGACC CCCTAAGATA TCAAAATCAT TTTCTGAAGT
201 GGGKATAATAT TTGTATATCC CCTATACCTG TAACACCCAA TACAATATAG
251 ATGTCATGTA AACAGTTATT AAGCTGTCTG TCTAGTTTAG GGTGGAACGA
301 CAAGGAAAAA AAGGTATATT TAGCACAGAT GTAATTTTWW AAAAATGAAA
351 TGTTTTCAAT TTGTGATTCG TTGAAGCTGT AGATGCAAAA CTCAMGGGAC
401 ATTAAAAGTC AACTATATAT CATTGGGTGA CTGATCTTCT GGTCCATTTA
451 AACTTTGAAT TCCCTATAAC ACAACTCAAA GAGAACAYGA TGGAGAGCCT
501 AGGTCTGTAT CCAATCAATC

ug115rcon

1 GAATTCTTGT TTTHHTCCTG AGACACAGCC TTGAAANCAG TCTCCTDCHT
51 CADCCTCCYG TNCAGAAATT ATAGATGT

ug116rcon

1 GGAATTCTCC TGCTCTGGCT CACCTGTCCT GCTCGGGGCT CCAGCTGATC
51 TGTGCTGTTT CTGGTAGCGC TGCTCACGTC GGGCAGCCTC CTGCAGCTCC
101 CGCTCTCGTC GCTCCTCCTC CAACCGCTGC CGCTCCTCTT CGGCACGCCG
151 CTTCTCCTCC AGGCGGCGGT TCTCTTCTTC CTTCTCAGCT TTGGBCCAGA
201 AGTTATCCTT GCCGACTCTC TTGATCTCAG ATATGGCATT GGTCTTCTGG
251 TACACAGAGC CCACTGGGGC CTGCBGCCTA CATCCTGGAA GGAGGTGCTT
301 TCCTTATGGA AGCTGTWGTT GGCCCCAGAG GCCTTNGCAA CCTTC

66/472

ug117

1 GAATTCCTAG GAAAACTCTA AATGAAAGTA AATGTCTGCC ACTCACTGCC
51 CTCAGCTATA ATCCAACCAG TGTACTTTCT TCTCATCCTG CAGACCAGAA
101 CAAGTCCCAA AGCTCTGGCA ATATTAATAC AGCAAGACAA GTAACCTTTT
151 TTTTTTCAAG TCTTGAGGAT GAACCAGAAG ACTTTAGTTT AAGATACCAA
201 GTCAAAGTTG CACGTTAACC TGGACCACAG TCAGGCCCCA GAHMOVCTGGG
251 AGTGTGGTTC ACACCTGTAA CCAGCACTCA CAGAGGACAA TGTGCCTGCT
301 GCAAACCCAA GSCAGCTTKC ACTGGGAGTC TGACCACTGA AG

ug118

1 GGAATTCGCT GAGTCTAACA AATGAGGCTT ATAGTTTGGT AGGAGTTAAT
51 AACTTCTTA GTAATTATAT ATTGACTGTC TACTATTTAT ATGCCAGGTT
101 ACTCTGTGGA GATTATTGGC AAATCTAGAA GTGAAATTGC TGA CTGGGTT
151 TTTAATATAG TAAGGAAAAT GACATATACA CATAATAGTA TTACCAGGCA
201 ATCAAAGATA GATACTAATT CAGTGATACT TAGAATCAGG GGAGGCATTG
251 CTTTAAATAG GTGAGGCAAC TGGGCCTTCA GTGATGAGTA ATGAGGAACA
301 ATATGGRATT CCGTGCAGCA GAAAAGAAGG TATMGACATG TAGGTKAGGA
351 AACTGCMGC AGTGTTTAT

ug119

1 GGAATTCCCC GGCTCGAGCG GCCGCTTTTT TTTACTATTT TTATTAGATA
51 TTTTCTTTAT ATACATCTCA AATGCTATCC CGAAAGTTCC CTATACCCTC
101 CCTCTGCCCT GCTCCCCTAC CCACCCACTC CTGCTTCTTG GCCCTGGCAT
151 TCCTCTGTAC TGGAGCATAT AAAGTTTGCA ATACCAAGGG GCCTCTCTTC
201 CCAGTGATGG TTGACTAGGC CATCTTCTGC TACATATGTA GATAGAGACT
251 CATATCTACA TATGAGTCTC YGGGGGTCYT CGTTA

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ug120rcon

1 GGAATTCCAT AAGTACTATT ATTTTATTAA AAATTTTAAG TTGAGGCTCT
51 AATTAGACAT CAGCCTGATT TCTTTGAGTT CCACACACAC ACACACACAC
101 ACACACACAC ACACACACAC ACACACTGTC TTCAGCAGTG AGACCTTACA
151 ATCACTTCTT AGAAAACAAT TGATAAGTAG CCTTGCCAAT AGCCAGTGTT
201 ATTTTGGGAT TCCATGGGAT TTCATGGAGT CAACATTGGT CAGCAACTCA
251 ATTAGATGTA AGCCATTCTT GGGACTGAAA GGTTTCCTTG GAGAGGAAAG
301 ATGTCTAGTT GGAGTACTGT TTCCCTTGTT GTTTAGTGAC TCCATTAGA
351 TTTAATCATA TATGTATATA TTTTAAGAAG TTTCAACTGT AGTAGGTTTC
401 CATATGGACC CCAAANNTC TTAGTGCTAA CTGTCCCTCC CTG

ug121

1 GGAATTCCCA ACTCCCATCT CGCTGAGGGC TGTGCCATGG GCTCCTGTAA
51 CCTTGCTCTG CTCTTCAACA AAGAGGACCA GTGGGAGGAA ACTTGTGGGC
101 CCAGCATTCC CAGGCTAAGG AACTGGGGGG GAGGGCCAGT TGGATGATCC
151 CCAGGGTATT AAAACCTCAC TTTGGAGAAG AGGCAGAGCT GTGTTTAGAA
201 AGKCAGGKCA GATGTGGGAA GAGCATTGCA ACTBCAGGG

ug122rcon

1 GGCGKTAGGC GAGCAGCGCC TGCCTGAAGC TGCGGGCATT CCCGATCAGA
51 AATGAGCGCC AGTCGTCGTC GGCTCTCGGC ACCGAATGCG TATGATTCTC
101 CGCCAGCATG GCTTCGGCCA GTGCGTCGAG CAGCGCCCGC TTGTTCTGA
151 AGTGCCAGTA AAGCSCCGGC TGCTGAACCC CCAACCGTTC NNCCAGTTTG
201 CNTGTCGTCA GACCGTCTAC NMCGACCTCG TTCAACAGGT CCAGGGBCNG
251 HAHCGGATYA CTGTATTNGG CTGCAACTTT GTCATGCTTG AACACTTTAT
301 CACTGATAAA CATAAATATG TYACCAACT TATCAGTGAT AAAGAA

68/472

ug123

1 GGAATCCCCG GCTCGAGCGG CCGCTTTTTT TTTTTTTTTT TTTTTTTTTT
51 TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT CATAATTGAT TATTTTATTA
101 AGATAGTTGW TTAATAACTG AAAACCAGAG GTAAAGTAAC AAATTCCAAA
151 GGCTTTTAA AGGCATAAWA TTTWAAGGCT ATTCCAAATC TTCTTGGGAT
201 GRAAGAAAAA TCCCTTT

ug124

1 GGAATTCACC CGGCTCGAGC SGCCGCTTTT TTTTTTTTTT TTTTTTCCCC
51 TCCTTTTTTT TTTTTTTAAA GGAAAACCAG TCAAATCATG AAGCCACATA
101 CGCTAGAGAA GCTGAATCCA GGTCCCAAAG GCGCTGTCAT AAAGGAGCAA
151 GTGGGACCCG CACCCCTTTT TTTTATATAA TACAAGTGCC TTAGCATGTG
201 TCGCAGCTGT CACCACTACA GTAAGCYGGT TTACAGATGT TTCCCVAVCG
251 GAATTCCACC AACTGGCGG CCGCTCGAGC ATGCATCTAG AGGGCCCAWT
301 TCGCCCTAT

ug125

1 GGAATTCCAT ATTCCAGCCT CTACAAAAG TGCTGGATCC TGATTTGTGC
51 AATACTAGGG ACTGAACCCT GATCTTTGTA TAACTAGGC AAATATCAA
101 CTGATAAAGT GCACTGGGAT CTTGGAAGTT CTGTACTTGT GATTCTGGAC
151 TTTTGGAAGT CAGAGAATTT TAATTACCCA GTGAGTCGAC TGCTGCTACT
201 CAAAATTTTC ATTAGTATCT ACGTGGGGGG GGGGGGCTTA GAAATGTAAA
251 CMTGGGGAGC TGGAGAGATG GCTCAGTGGT TAAGAGCACT GACTGATCTT
301 CCCATGTGGT GGCTCACACC ATTTTTTWTAT GGGATCTGAT GCCCTCTTCT
351 GGTGCTGTCT GAAGACAGCV TCAGTGTACA TATATAAATA AAAGAAATGT
401 AAACATGCMG CTTGGGAAGC AAGTA

69/472

ug126

1 GGAATTCCGC GCGGGCACGG AGCAGGACGG CGGGACGGCC GGCCCTCCCG
51 GCCGGAGCCC GCGGGCGCGG CHGCGGGGCG GTGGCCCAGG GCAGGCGCCT
101 ACCCCCCCCC CCCCCAGCA GCATGTCATG GTTTAGTGGC CTCCTGGTTC
151 CCAAAGTGGA TGAACGAAA ACAGCTTGGG GGGAACGCAA TGGGCAGAAG
201 CGCCCACGCC ACGCGAATCG AGCCAGTGGC TTCTGCVAC CTCGCTACAT
251 GAGCTGCCTC AAGAATGCGG AGCCACCCAG CCCCACTCCT GCAGCTCACA
301 CTCGGTGCCC CTSGCAGGAT GAAGCCTTCA TCAGGAGGGC GGGCCCGGGC
351 AGGGGTGT

ug127

1 GGAATTCGTA CAGGTTGAAC AGAATTGAGA ATGCCTTGAA GACAATAGAG
51 AGTGCCACCC AGCAGACAGA CAACTGAAG GAGCTTTATG GACAAGTGCT
101 GTACCGCCTG GAACGCTACG ATGAGTGCTT GGCTGTGTAC AGAGATCTTG
151 TCCGGAATC CCAGGACGAC TATGATGAGG AGAGGAAAAC AAACCTGTCA
201 GCGGTCGTTG CCGCTCAGAG CAACTGGGAA AAAGTGGTTC CTGAGAACTT
251 GGGTCTCCAA GAAGGCACAC ACGAGCTCTG TTACAACGCT GCATGTGCAC
301 TGATAGGGCA AGGCCAGCTG ACCCAGGCCA TGAAAATYCT GCAAAAACCTG
351 AAGATCTTAT GTCGCCGTCA TTTTCA

ug128

1 GGAATCTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT
51 TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT
101 CCAAATTGTT TTGATCCTTA TAGATTGGA GGGCCAACTG CATTTTTCAT
151 TTATACTTTK KGCAGGGTAA GTACTTTAAA AAACAATTAA TTGRCTTAAA
201 TCCATTAACA TTTWTGTAAG GGATTATATG GTCAGCCATT CCTTGGTATA

70/472

ug129

1 GGAATTCGGA AAATGTTAGC ATTTAATTAA CCTCCGGTGT GGCTTTTAAG
51 CCACCAGAAC ACAGGCACCT CCAACACCCT TAATCTTCTC CTCAGCTCTT
101 CTGCTGAAGA ATTTGGCCTT CACGATGACA GGTTGCTTAG GGAGCTTTCC
151 CTTGCCCAGA ACTTTGTAGT AGCCTGATCG AACAAATCA ATGATGGGAG
201 CAACTCCAGT CTTGTTTHTC MGCATTGACC CGTGTCTGCH CGCTGACCAA
251 TGTCCACAGT TTATCCAGGT TGA CTGTTGG GCAGAAGCTC TGGTTCCTCT
301 TCAAGTGGTA ATGCCGCATA CCAACTTTCC CAAAGTAACC TGGGTGATAT
351 TTGTCAAAGT TGATCCTCGT GGTGCATGCC TCCAGCATTC CC

ug130

1 GGAATTCCTG AAGGCTGAGG CTGTGAAGAA GGACCGCAGA AAGAAGCTGA
51 CCCAGTCCAA GTTTGTGGGG GGTGCAGAGA AACTGCCCCA CCCCAGAGTC
101 ATCCCTGCAC CTGAGATGAG ACAGGAATCC GAACAAGGCC CCTGCCGCAG
151 ACACATGGAA GCTTCCCTCC AGGAGTTCAA AGCCAGCCCCA CGCATGGTGC
201 CCCGTRCTGT GTACCTGCCC AACTGTGACC GCAAAGGATT CTACAAGAGA
251 AAGCAGTGTA ARCCWCCCCG TGCCGCAAAC GTGGCATCTG CTGGTGTGTG
301 GACAAGTACG GAATGAAGCT GCCGGGCATG GAGTACGTGG ATGGGGACTT
351 TCAGTGCCAC RCCTTCGACA GCAGTAACGT TGAGTGA

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ug130r2

1 GAATTCCTG GAGAAGCCTG GAGCTCCACA TGCAGAGAAA TGATCTGTCC
51 TTGTGTCTCG TTCTGATTAA AAACAAAAC AATCAAATAA AAAACAAAAT
101 KGAACAACAA CCTTAGTGTA TGGCATGAGA ATGTGAAAAC ACTAGAGATG
151 ATCAGGGGGA TCTTCAAATG GAGGCAGACA GCCAGTTTCT GAAGAGAATT
201 GCAGTAGCTC GGAAAGCCAG TCACCG

ug131

1 GGAATTCGCA GAGGCAGGCA GATCCCTGTG CGTTTGAGGT CAGCATGGTC
51 TACAGAGGGA GTTCCAGGAC AGCCAGGGCT GTAGAAAAC CCTGTCTGGA
101 AAAACCAAAC ACCACCACAG AATAAAACAA GGAGAAACAG ACTTGTTTCC
151 AAAGTGGCTC TTCTGAAGCC CCTGCTCTGA AAGTTCACGT GACCACAGCC
201 ATGCCCCCTC TTCATCTGAG TCACTGGCTT AAGGCAAGGC TGCGCCGAGA
251 CCATGAGACC GTGAGACCAG ATGGTGGTGT GACATGGAGG GAAGGCGGAG
301 GTCTGGCTGC TGTGCAGCCC TAGCSCCAGT CCAAGAGCAC CTGGTCTTCC
351 GAGTCAGCCT AGGTCAGTGG TAGTCATCAA GCTCACTTCT GAGCAGGGAA
401 AGATCCAGAG CGCCAARCCC AGCCCCGTCC CACAGATCCA

ug132

1 GGAATTCGTT TGAATTCCTT CAACTACACT CAGAGTTCAA GTGCAGACAC
51 ACTGTGTCCC AGGCTCCCGG TTCCTCCAAG GGATGACAAG TGTGTGCCAA
101 TACCTCCGAC ACAAGTTTTG GCACAAGTTC CTTGCACTCA ATACTCTCAC
151 AAGGCGAGCA CTTCACTGCG GACTAAGCTA TACCACAGCC CTGAGAATGG
201 AATTTTCCA AGGTTTCCAT TTAGAGTTGG ATCAACTGTC CTCTCTCTGT
251 CGCTGGGATG ACATGAGAAG CTTACAGGGT GGCACAGGTG CTGAACTCAG
301 TGCTGATTG TGGCGCTCTC CCTCCTTCTG CTTCTTTTGT TAACCTCCGG
351 ACATGTGCTG GTCCSCTGCC CCTCACAGTA GGGTCTGCAC TGTAAGTATT
401 GTCTTATAGA GGAGAAGACT GATCAGGGAG AGGTTGAGCA AGCAGAAAC

72/472

ug133

1 GGAATTCCAG GTTATTATTT TGTTTTTGGT GTTTTGTTTT GTATTTTTGG
51 AGATAAGGTC TCACTATGTG GCCCTGGCTG GCCTGGAATT TACAGAGGTC
101 AGCCTGCCTC TGCCTCTTAA GTGCTGCAAT TAAAGTCCTG GACTATCACT
151 TCAGGCCCTC TGAGGTCAGT TTTAATCAGC GGAAATACTT TTATCATTCT
201 GGCTTTGCTC TTCCCAGATA CCTACACTCT TTCTTCACTG ATACTCAGGS
251 CTGAACCAAC TTTTATCATT CTGGCTTTGC TCTCCGAAT TCCACCACAC
301 TGGCGGCCGC TCGAGCATGC ATCTAGAGGG CCCAAYCCGC CCCTATAGTG
351 AGTCGTATYA CAATTCACTT KTCGTCGTTT TACAACGTCG TGA CTGGGAA
401 A

ug134

1 GGAATCCCC GGCTCGAGCG CCGCTTTTTT TTTTTTTTTT TTTGAAAGTT
51 TCAGATGTTT TTATTCAAAG GTTCTCAAAA GAAATAAAAC AGAAAAAGCT
101 AACAACTGA TCAAATGTAC AGTTCAAAAA TGTCTTTTGG CGTTTAACAA
151 GTCCTAGGAA AGAAAAC TAC AGAGTCATCT TGAACCGGTA AATAAGTCAC
201 CACTGGCAAG TATGTAGCAC TAGTAGAACA AAAATAAAAA ATTA ACTCTC
251 TTGATCATAT AGATATCTCT ATGAAAATCT TTTTTTTCAA TCTGTACAAA
301 AGGTCTTTCT TCATAAATTA ATTTTTTTTA TAATTTAATG GCTGTCTACC
351 CCGGCTCGAG CGCCGCTCG

73/472

ug135

1 GGAATTCATA ATTAATAGCA ACAAACGGCC GTCTCGCTGC CTGCCGCAGC
51 CGCAGGGTGC TTTTGCAGAC CTGACGAGCA ATTTTGTGA AATACGTAGT
101 ACGAAGGAAG AAAGCTTGGC GGGTCTTCAC TGCAGACTTG GGGCTTCCGG
151 TGTTCGGAC CGGCATGCCC TGCAAGGCCT GCCGGGACAT GTGGCTTCTT
201 GCRCGCGGGT CCTCTGCAGT CGGGCTGGGA GACTTCTCTT CGTCTGACTG
251 GGTAGGCATT TTCAGACCTC CATACTTTTC CAATACAGCC AACAGGTCGC
301 VCAGAGTCTA CACTGCATGT TAGGTGGGCC CCAGGAATAC CACTGATGAG
351 ACTGTGTGGC GTASAGC

ug136rcon

1 GGAATTCAA GAGGTCTGCT AGCCGGTAGA CATCAAGGAT ATTCTCCTCA
51 TCTACCCATG ACATGAGGAA ATCACAGCAG AAGTGGATAA TTTCTGGTAT
101 CTGAAGTTGG CAGGCAGCAA CCAGGGTCTC CTGCACATTG CTCAGGCTGA
151 GCTCTAGTTC AGAAGTGTAT ATGAAGTGCA GGATTGGCA CATGGCATTG
201 TAAGACACAC CGTGGATCAA GACCTCTTCC WGCTCCAWCT CCTTCAATCC
251 CCCAGCAAAC ATTCCTCTGA AATAATCACA CGATGCAGCT AGCAGAATCC
301 GATGGGCCTC AATGTGCTTC CCCTCAGTGA CCAGGCCAAG TACCTGAATC
351 CTCTTACTGG GGAAATHGGA AMAATTTMNN TGGCTTT

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ug137rcon

1 GAATTCGTTT TGCCTATTTT CATGTGTAAA TTCATTCAAG TGATACAAGA
51 GCCCTAAAAA TCAACCCTTG ATTCATCAAA AAATATTTAT TTAACAAAAA
101 GAGAGAGAGG GCCCAGGCAT GGTAGCTCAC ACATGCTTAT AATCACACAC
151 TTGGGAGGGT GAGCCAAAGA ACTGCCATGA ATGTGGAGTG AGCATGGTTT
201 AAAATTCAAC CCTGTCTCCA AAACAGGAGA GGGAAGGGGG TGGGAGATTT
251 GAAAATTCAT ATACAGGAGA AATTAACAGA CAATATTATC AGAAAACCAA
301 AGTACACTTA AAAGTGCACC ATCACTCTGG TTCATCAGGC CAGAGTGAAT
351 GCTTGTGACT AACTGTCTGT CCACCTGCTG AGGATGTACT TATTCTTTAC
401 TACAATAACT TCTAAAGTAT NCTCATAGTT HACAGCAAKK CCAGANCCTA
451 ATAATTATCT AATCTAGNGT TTCTCAACCT TNGCGATCAC AAATAATCTA
501 TGTACTAAGA CACT

ug138

1 GATTCTTTAT CACTGATAAG TTGGTGGACA TATTATGTTT ATCAGTGCAT
51 AAMGCTGCTC AAGCCATGCA CAAAGCTGCG CCGCGCCCGA ATVCVGTGA

ug139

1 GAATTCGGCA AAGGGAAGAC ACCTCCAGCT CAGCCCAGAA GCAAAGCTGC
51 TGAGGGGGAC GTGGTACCAG GTGGGGCTCA GCACTCATCC TCCCCGAGCA
101 GGGCATACGG GTTTCGGGCT GTTAGGCAGG ACCCAGGATC TGAAGTTGGG
151 GTGTCCTCAT CTCCAAATCC CTCTTCATCT GCATCCCGGT CCTCCTCTCC
201 TTAATCCWCA CAGGAGCTGC TCAGTTCCTC CTCCTCTTCC TCCTMMTCAT
251 CACCTGCCGG CCCCACCCTG CCCTGCGACA GACCAGCTCT GCAGTCTCTG
301 GGTGAGACTC CCAGGTGCCT CTCTGTTCGC CTGTAACCAG GAGGGTAGAA
351 ACATAGG

75/472

ug140

1 GGAATTCGGG GAGCTATGGG TAGGAAGTGG TCCCAGAGAG GTTTTAGGTG
51 GAAGAATCAG GAGGAGTCAC AGGTCAACTT GCAGAATTAC TGAAGAATTA
101 GGACCCCAAA TTTTATGCCA ATTGATCTAT TCCCCTCTTT TTATTTCTGG
151 GGCCGGTTTT TTCCTTTTTT TTTTAAATCC CTCCTTAGCT TTTTATGCGC
201 TCATAATCAA TTGTACCCAT TCCCTACATA ACGGGAGCAG TGATCAGGTA
251 ATGAATGCAT CGAGCCATCA ACACCAGCTA GAGCCATCAA CACCGGCTAC
301 CACAATGTCC TGCTCTCCAC AACCTTGATT TTTTTTTTTT TATCTCTCTC
351 TATCGCTTGG CCTGAGTTGG GAGTGGAGTC TCTGTGGGGT GCGGCCACDC
401 ACCCACAGAG AAATAAAAGG AATTGAGAAG GTCGCTACCT GGCCTGACTW
451 CTGGGGACAG TGCTGGTCCC CAGAAGTTCT GAGGAGTGGA GGVGGCGTGV
501 GCACGATGTC CCCTCACGGT GTTAGGAAGG YGCTCGGAGG CCACAAAAGA
551 TGGG

ug141rcon

1 GGAATTCCTT AACACTAATA GAAATAAATC CATTAAAATC TTTGAAAGAA
51 AGAAAAGAAA AAGAGTGGGC TGAGACTCCT GCTAACCTCT GACCTACACT
101 GACCTGACTG CTATGGCCAC TACATATTCA GTAACAACT CAAAACCTTG
151 AGGAACCCTG TGCTTTCAGG CATACCATGA CAAGCTAGCA TGCCCAAGGC
201 CCTGTGCACC ATCTCCAACG CAGAAAGATA AGAGATACAC TTACATGTTG
251 GCAGGATCTT TAGTATTACC ACCAGGTCAG CCACATTGTG TCCTGTAGTC
301 ATTGTTCCCT TTTTATATGA TCCTACCTGT CCGGACTTCT TCAATTTGCA
351 CTTTCAAATG TTCCTCGGGG GCCACAAATC AAGTTGTCAA TCACATTGTT
401 GATTTTTTGT CACCAAAGAA AGGATGGAAG CCTGCTCAGC AGAAATTATG
451 GGGCAAGGTC TTGATTCCTC TTTCAGCAAG GCTTCACCTG AAAGGAGG

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ug142

1 GGAATTCTTT AAATATGACT ATGGCCAGGC AGTGGTGGTG CACACCTTTA
51 TCCCAGCCCT CAGGAGGCAG AGGCAAGGAG GATCTCTGTG AGTCTGAGGC
101 CATCTTGGTC TACAGAGTGA GCTTCAGAAA AGGCAAGGAT ACACAGAAAC
151 CCTGTCTTGA AAAACCATAC ATAAACATAC CCTCTGGCCC CTTTCTTCTC
201 ATCACGAAGA AATAGGGAGG GTACATAAAT TGTTTAGATT TAGCTTAGAA
251 GTTTATTAC ATGTCTACGA GTGCTCTCCT GTGGAGCTCA AGAGAGGGTG
301 TCTGATCCTC CGGAAGAGTT ACAAGAAGGC TGTGAGCTGC CACGTGGCTG
351 CAAGGAACCA AATCTACTTG GTGTTCTTGG GAACACCAGT AGGTAAATCT
401 CTTAATTACT MGAGCTATCT CTCCAGGCTC CTAGATTCTC AGGAAAAAAA
451 CCTGACTAAT T

77/472

ug143

1 GGAATTCGTA GGGGTGGCTC TGTCCAGTGA GCCAATCATT CCTTAAGACC
51 CTTCTGACCC CTCCTGTACC ATCGGGACTT AATCACCAGT CTGGGGAGGC
101 ATTAGGGAAG GGGCAAGGGG TGCAGAGGTT AAACCTCAGG AGAGGAACTC
151 AAAACCCTTC AATGGGGCTA TGTGATACGG AGACTTCCTG GGATGTGTCA
201 CTGGGTAATC AACTTAAAAG CTTCTTCTG GTTCTTCTCA CAGGCTAGCC
251 TAGAAGGAAA GCTTTTGCTA GGTGAGGTC TKGGGGAGGT CTTAGTGGTT
301 CCTAATCCCC TTTCTTGCC TTTACTGTCT GTCATGCTG TACACCCCTT
351 THAGAGCCCC AMCCCCCAHC CCCTKGCCCC TGCTCTTGG TCTTCTGT
401 GGGAACCTAA CYTTGAGAAA ACTTGTGTCC CAAATTGGCA TTTGCTCAGG
451 GATATCTSAA TTTATKTCTC TTCCAGT

ug144

1 GGAATTCAA CCGGCTCGCG CGCCGCTTTT TTTTTTTTTT TTTAATGCTG
51 TTGTTTATCT TATATATGAT AAAGTAAATG TCTTTATTCC TATGTTGTTG
101 AAAACTACCC AGTAATAATC CTGGAGTTCA CTGTGTCAGA CCTTGGAGGA
151 GTGGGCAAAG AGCAGCAGCA CAATAGTGTA TGTTGTGTTT AGGTTGGAAG
201 TTCTAATAGG CAAGTCAGGA ATTCTTATAT CTGTAGCTCC TCCAGAAGCC
251 CCAGGCACAG GCGGGGCTCG GTGTGAGCAT GTGCACACAG CYCCACCCCT
301 TCACCCCACC CCCDYHYCAG CCAGGTGTTT AGTGCACTGA GATGTGAAGA
351 CTCTGCTTAG CAACCAGCAG TAAGTCCTGT CTCAATCGAT GCTAGGTCGC
401 TGTGAGTTAA GACAGGGACT

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ug145

1 GGAATTCCTG AGGACATGAC ATCCAAAGAC TACTACTTTG ACTCCTATGC
51 CCACTTTGGC ATCCACGAGG AGATGCTGAA GGATGAGGTG CGCACCTCA
101 CATACCGCAA CTCCATGTTT CACAATCGGC ATCTCTTCAA AGACAAGGTG
151 GTGCTGGATG TGGGCTCAGG CACTGGCATC CTCTGCATGT TTGCTGCCAA
201 GGCGGGGGCC CGCAAGGTTA TTGGGGATTG AGTGTTCAG TATCTCCGAT
251 TATGCTGTGA AGATTGTCAA AGCCAMCARG TTAGACCATG TTGGTGACCA
301 T

ug146

1 GGAATTCGTT CAGCAGTCCT GGAGACTGAG CCCTCAACTG AGGGCATCTG
51 ACATTCTCTC CAAGTTGAAG GTCTGATGCA AAACCAATAT TTTGTTTGGT
101 GTGTGAGTAT ATATCCCCAC ACTTTGGAGG CCCGCAGAAG TAACCTGTGT
151 TGGAGAACT GACTCTGGTT TTTACTTAAG AGGAAAAGGG GGAGAGAAAC
201 TAGTGATGTG TTTCCCTGAT AGACTTTATA TCATATAATA TAAATCACAC
251 ATGGGGAATA CCAAAGGCA AAAATAAGCA AGCCACTGTT ACCTAACTCA
301 GAAAATTATA CTCTTCATCC ATTTTAGGGA TGAAAACAAT TGCTGTCAAT
351 TTACAAGCCA ACTTTCAAGG CAGAATTTAG GTTATCCAAT CAGGATTTAG
401 AATATCGAAC ATCTTCAATA TCTAAATTTA TATTATATVG TCACAAATAT
451 CAGGACCC

79/472

ug147

1 GGAATTCGCT TTTTAAGGAA TGCTGGTGGT GCCTGGGTAG ATAATTACAT
51 CACTTGTTCC ACTGTGTTGA CACTGTTTTC CTCATGGATC TCCTCCATTC
101 CTAGCTTTCT CTGCTATGCA TTTTCTTCAC AGCGCAGCTT GCGGTCCGTT
151 GCTGAAAATT ATAAGCTCTG CATAGTGTTG GCTTTACTGT GATGACATGT
201 TTCTTCTTTT TTAGCTGGCC CACACCTTTC TAGGGTCCAA CTACAGGATA
251 GATTACAGAC TTTCCATTAG TGTCTATTTT TTTTACTCTG TGTAGACTTT
301 AGAAAGTCTA ATCAATCCAG AGATGGGCCA ATTCAGAATT GACTATAATT
351 GAACACCTGC TAAAAGTATT TATGGGAGGA TTGACACACA GCATGAGTTA
401 TTTGACTTTT GTAGGATATT TAAAVTCAT TTGCAGTTCA TGTAACAGTB
451 GTGGTCTTAA AATTCACATA ATAAAGCAGT CCTGTTCAAA AAAAAAATT
501 TT

ug148

1 GGAATTCCGC CCTTTGACAC TGCAACAGCA TGGTCATCTA CAAGTGCCAA
51 GCTGCATTCG TAGCTGTCCT GAGACCTGAG CTGTCATGTG ACCCTTCAAT
101 GGCAGGCTGG ACACACTATG AAGGGTAAGG TCCAAACTTG GTCCAGCCAG
151 TAAGAACTC ACGGAAAATC TAGCTTCACA ACAGGAGCTC AAAGAACCTT
201 ACATACTGGG CATTTACAT CAGGCACATG TCTGGGGAGA GGACTGGATA
251 CCAGACCTTA TAATCAGCCT AACTTGCTA AGAACAATAA TTAGGTCCAT
301 TTAAAGAGG TTCTAGCCAC TATTCTTGAA ACTGATTTTA CTAAGTATAA
351 ATCCTCAYYG AAATCTGTTC TAAATAGGT TATTGAAAGC AACTCCTGTC

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ug149rcon

1 GAATTCCTTT GCTTGATCAA TATGTTTATT GTCTTTATGA AAAAATCTTC
51 ATAGAAAAC TCTTTAGCTT TCAGCAGCCC TTCCTGAGC TCTGAGGAAG
101 CTTGCCTTCT TTTGAGCAAC CCGATCTTTC TTCTGGGCAA GAGACATTTT
151 GGGACGATTC CACCTCTTCT TCTTCACTTC TCTCTTGGGC TTCTTCTCAT
201 AGACTGGATT CTCTCGGATA GCAGCATGAG CTTTCTTATA CATCTCCTCC
251 ATCATGTCTG GAGTTACGTT GTTCTTGATG TACTGAGAGA ACTGTTTCTT
301 ATACGCATCT TCATCTTCCT CCATTAGGTA GCGCATGTAG TCTGCCACAT
351 TCTGACCCAT GATGTGCTTC CGATGTACCT CTGCATTGAA CTCCTTGCTT
401 TCAGAGTCAT AACCAGGGAA TYGTTTGGTA CTATGAGGGA TAGACAAGCT
451 TCCATHCACA RGT

ug150rcon

1 GGAATTCCGG CTTCTGAGCA GATCAGACTC TCCTCGTTVN CGCASTCRCD
51 CVGCTCCTTC CAGCAACCAT GTCTGACAAA CCCGATATGG CTGAGATCGA
101 GAAATTCGAT AAGTCGAAGT TGAAGAAAAC AGAAACGCAA GAGAAAAATC
151 CTCNRCMTTC AAAAGAAACA ATTGAACAAG AGAAGCAA

ug151rcon

1 GGAATTCCTC TGACCTCGCT GTCTCTTCTC TCCTCTCCTC TGCTCTACCT
51 CTGTCTCACC TCTGTCAAGT TCTATGAATG ACTGATAGAA AGCTAGTCTG
101 CAACCATTCG GCAGGTAGAA ATTTCCCCTG CTCTGCAGGG AGACATAACC
151 CTCTGTTTGG CGATGGAGAA TGAGGAGCAG AGCAGTGAGC CCCTGGGGAG
201 GCTGTAATTA AGAWCCACTC CTGNCTGAGC CTCGSGCAGA GCCTCACTCG
251 SGATTCTCCC TGTAACCTCCC CAACAC

81/472

ug152rcon

1 GGAATTCGGA ATTCCTTTAA ACTACAAGGA TTTTATTTTA TTAGAATCTA
51 GCCTGAGCCA GAACCTTTTA TGGTCACAGG AAGAGATAGC AAGTAGATTT
101 ACTGACATCA AGAAGGACTG CCCAGTGGTG GAGCCAGCAT TTGAAACTGG
151 ACTATAGAGG ACCAACTACA ATTGTGACTG CATTTGTGAC TGAATGTCAC
201 AAAAAGTCT GAGAGGCTTG TCATGTATAT GAGAGACAGG GAAAGAGTCA
251 TAGTCAAGAC TGAAGCATG AGCAGGCAAG AAGTGATCCT TAGATTCTAT
301 CCCATCAGT TCTTTCACAT CACATGTGTT TGGCCTCTGT ATAATACCCA
351 GCTGTATTGA CCAGGACTTC TCTGTCCTGC TTTGCTCTTG AATTTTCATA
401 GTGAGCCTAC CTTTGGTAA TGACTATTTA TGAGATAGTG TTCTATTCTC
451 AGGTTACTAC TGTGGATTGA ACCCAACATT ACAAACACCA GCTCAGCAAM
501 GAAAAATAAC CAATTACTTH GTCTCTGTTG AACATTGAAA AACTTCCAC
551 TGAAAGAATG GAGTGATTAA AAAAAGATCC MACMGATGAC CMAAGTAACC
601 ACAGATAT

ug153rcon

1 GGAATTCACA AGATCTACCA CTTACAGAGC AAAGTACCCA CCTTTTGTWC
51 GAATGCWGGC CCCAGAAGGA CGACCCTGAA TATACACGAG AAAAMCTGGA
101 ATRACCTACC CTTACDGCAG AACCGTTATT ACTAATGAGT ACATGAAAGA
151 AGATTTTCTG ATTAAAATTG AACCTGGCA CAAGCCAGAC CTTNACACCC
201 AGGAGAATGT GCATAANGCA KMGGAGGCCT GASRGCATGG AAACATGTGG
251 AAGCTATATA TATAGACAAT TRCTGATC

82/472

ug154rcon

1 GAATTCGAGA GAGAGAGAGA GAGAGAGAGA GAGAGAGAGA GAGATCTAGT
51 TGTCAATTGA ACAAGGTGTA TTTGAGCCTG GAGGCATGAG CAGGGCTGGT
101 TCCTGCGGAC CCTGTGAGGA CTGTGGGATG GGCATGGGTG TTGTCTATAC
151 TGTGGTTGAG CACCAGTGCC CAGCGCCAGG CTGACTGACT AGCTGATACC
201 TCCTTGGTAT TTGCAGGGTA CTCTTGAGAA GTTCAGGCAG GTGAAAGTCT
251 GTGGCATCCT CCTCATTGGT CTTCTGCCCT CACCATCCCC CATGTAACCA
301 AAGAGACTCT GAGCVCCTAT TTTCCCTCCC TACTGAGAAT CCCTCTGGAC
351 TCCANNTCAC TCAGGGTAAA AGTCCATCCT TTCCATGACC ACTGGGTGGG
401 TCTTYACCAT CCACNCTCAT CACCTGTCTG AATTAGTTGA CGCTCCCTCT
451 GCWCCAGCCG CAATGGGCTC AGCCTTTGCA CGTGGTAT

ug155rcon

1 GAATTCCAGC AGTTAAGAGC ACTGACTGTT CTTACAGAGA TCCTGAGTTC
51 AATTCACAGC AACTGCATAG TGAATCAGAA TCATCTGTAA TAGGATCTGA
101 TACCCTCTGC TGGTGTGTCT GAAGATAGTT ACAGTGTACC CATATGCATA
151 AAATGAATAA ATAAATCTTT TTAATAATTT TATTGCTTA ATTTTATTTG
201 AATGTGTGTT TTACCCACTT GTATGTCTTT GTATCACCTG CCTGCCTGGT
251 GACTGAGGAG GCTAGAAGAG GGCTTCAGAT TCTCTGGGTC TAGAGCTACA
301 GCTGGTTGCT AGTGGCCATG TAGATGCTGG GAATCGAGCC TGGGTTCTCT
351 CTGAAAGAGC AACAGTGCCC TTAACCACTG AGCCACTAGA CATAAGCATT
401 CAGAGAGGAT TTGTTGTTGT TGTTGTTTTG CTTTGTTGTT GTTTGATTTT
451 TGTATTYTGC CACAGTGGCT GCAAACATTG AATCTGAGTT GGAGGTAATC
501 CTTTTATTTT ACAGAATMTC AST

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ug156rcon

1 GGAATTCCCC CCGCCATGAC TTTCAAACCT GTTGACTACA CTGTAGTCCT
51 CCTTGGAATA GACTTTCATC ACTGCTTGGG TCTCCTCCTC TGTACTTGCA
101 ATGCCCATCT TTAAGTCCTG CATAGCAGCC AAAGTGTCAG GACAACCCAG
151 GATATGCAAG GCTGCGTGAG ATCGGGTGGT AAGAGCCCTT GATCCTGTTG
201 GCAGAGCAAG TTCAGGACTT AGAATACTAC ATCTGGACTG CATGTCTGTT
251 GCAGAGGGAA GTCTGGCATC AGCAACCACG GCATTGTAAC ACCAGAGCTC
301 TCTGGTGCTT GGTCGAAACC TCCAAAGCAC ATCATATACA GGATCAAGAC
351 ACACACCAA TYCTTGCAGG TCTTCTTGTT CAGAGTCATT GAAAGTTTTA
401 CAACTTCCAT CAACTTTATT TATCAGAAGA CATTAAATG GTGGAGGTYC
451 TGATATGGAA GCAGGAMCCA RGGCCTATTA

ug157rcon

1 GGAATTCGCA ACACCTCTTA GGGCAGGTGG CAATCCAACA ACAACAAGGT
51 CCCGGAGTAC AGAACCAGGC TCTGGGTCCT AAGCCTCAGG GCCTTCTGCC
101 TCCCAGCAAC CACCAGGGCC TCCTGGTCCA GCAGTTGTCC CCCCAGCAGT
151 CCCAGGGATC CCAGGGCCTG CTTGGCCCTG CCCAGGTGAC AGTGCTGCAG
201 CAGCAGCAGC AGCAACAGCA GCACTCTGGA GCTCTGGGTC CTCAGGGCCC
251 TCACAGACAG GTGCTTATGA CTCAGTCCAG GGTGCTGAGC TCCCCTCAGC
301 NGGCACAGCA GGGTCACAGC CTTATGGGAC ACCGGCTACN CNCNNCCCAG
351 CAGCAGCAGC AGCAGCAGCA GCAGCAGCAG CAACAGCAAC AGCVGCAGCA
401 ACAACAGGCA ACAACAACAA CAGG

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ug158

1 GGAATTCAGC TTACATAGGG AATTCTAGGG CAGTGAGGGA GTTTGTCTCA
51 AGAGGAAAAG GTTAAGTGTC TGAGGAATGA CCCTGGAGGT TGCCTTTGA
101 CACCTGTGCA GGTGCACACA CACACACACA CACACACACA CACACACACA
151 CACAGGAGCC AGGTATGGTA GGTAGCACAA GCTTGTAGTC ACAGCTACAT
201 GGGCAGGTGA GACTGGATGA TTTAGAGTTT GAGGCTAGCC TGGCCTACAT
251 GGTAAGTTCA AATCCAGCCT TGGTTATCTA GTTGAGTTGT TATCTCAAAA
301 CAAAACAAAC TTATCCACCT ATGTGAGACA ATGTGAGATT TTTTCTCTGC
351 TCAAAGACAA ATGTTTTTCT CAAAGGTAGC AACAGGCTGA TAGGAACACT
401 CTTCCCAGAA GAGTDCACAC ATGAGCHGGT GCMCTGGGVA TGCTCAGAAG
451 AGGCT

ug159

1 GGAATTCATC AGAAGCTCAT TTTGTTATTC TTTTTTTTCT TTTTTTTTAA
51 CAAATCAGTA AAGCTTAAAG CCAGAGACTT ATAGATTGGT TCAAATATAA
101 TCAACAGTAA GATACAGACA ACAAGAGATA CAGCTAAAGC CACTAACAGC
151 AACAGATTCA AAGTAGGAAG ATGGGCAAAG GTCTTATCAG GAAAATGCTA
201 ATGAAAAGAA AGCTAGATCG CAATGGTAAC ATCAGATAAA GGGGAAAGCA
251 AGCCAAGCTA CATTAAATAG GGGTAAGGAT GGCTTCGGTT AGCCTTCCAA
301 CRCGTCATA TAAGTTTGTT TCTCACTTWA CTGAWCTCAT CTAGCTCCTC
351 CACAATCTCT AAACAGATCA TCACTRCTCA AGARCMTGTT GTGTATATAC
401 CTCCTGAAAA

85/472

ug160

1 GGAATTCCAT GGTAAAGCA TATCAAATAA ATACTAGGCA AGGAGTTTCC
51 TGGGAGAGTT AGAAATTAAA AAAATTTACC AATTTTCTGT CTCTGTGATA
101 ATTCAATGCC AGTAAGAGAA AGGTATTGAA GGGACAATTT TCATACTAAA
151 AAAAGAATTT CCCTAGTCAT GTCACCATCT CTTATAAAGA ATCCAGGGAA
201 TCCCAGAAAT AGAAAATTAG TTTCAGGGGG ACCCCTGAGG CACTTTAAAG
251 CCTTTAAAAA ATTACAGTAA TAATAAATTA GCTATTGCTC TTCAGAGGCT
301 CACGGAACAG CTAACACAAC AGGACCAGGT CCAGAGTTAG GTCCGTATCT
351 CAGGTTCTCG AGCTGCCCCG CCCTCTTTAA AGCTTAGACG AATTTCCAAA
401 TACAAGACAT ACAATTTAAC ACAGACTGAG TGGGDCTTTT TGTTTAGTGG
451 GT

ug161

1 GGAATTCCAT TCTTTCAAAA ACAATGTATT ATCACCTGAG AAATAATCCA
51 CATTTAGTTA ACTTTTCAGG GAACTTCTGA ACTCATCATA CATACTCCAC
101 TACCCAATGT CGACACTCCA TTTCCACCTC AGCCAGTTAA GTGTAAAGTA
151 TGCAAAACCT CAATGAGTTG TTTCTAACTG ACAGACTGCA GAGATAAAAG
201 CAATGACGAC GGCCTTCAGA TCTTAGCAAA AACAACTGCT AAAGTGACTA
251 TCAAGGAAAA GAACCATTTT AGAAGCAGTT TTATGTACCA AGGTGGTTAA
301 AACTTAAAAT TTGACAGGCA GTTGGTGGCA CGTGCCYTTW ATACCCAGCA
351 CCTGGGAGGC AAAGGCMGGC AGGATTCTG TAGGTTC

ug162

1 GGAATTCAGG GAGAGCGCAG ACAGGAAAAC TGCAGAAAGC CACAGGGAAA
51 GTACGGTACA GACTCAGATC TTTTATTTT CAACTTACTT CTCGTTTATT
101 TCCCCACCAC TCCTCTGGCT CCTGCCTAAC TGGGTCGCGT TGGGGATGTT
151 TGGCATGGCG CTCTTAGCTT TTGTTGTTTT TAATTCCGCG CGCCCCCTTH
201 CTCTCVGGCG GATTACTAGG TCCCGAACTC TGCCACTACA ACCTTAGGAG
251 CAGCAAGCTY CGCCAACTGG CACCACCG

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ug163rcon

1 GAATTCATTT TATTTTATTT TTATTTATTA ATAGTAACAA AAATCAGAAG
51 TAACAAAAAA CCCAGTTAAA TGGAATACAG AAGCACAGCA AATACAAATG
101 CAATTTCAAA ACCACTCGGC ACAGAAATCT GTTGAAACCA TTTTCTGAAG
151 TTTAACTATT TAGGTCATAG GACTAACCAA GGCATTCGGA GTGCTCACAT
201 GGATTTGGTT GCCGATGGAG GAGCCTGCTT CCCCAAGACT GACAGTAGTA
251 CCCAAGAGTC CTGGTATATG TATGTGAAAA GACCTCCCTG GGTCTGGAT
301 CTTAAGAGAC ACTGATGTTA ATAAAACCAC CAGGACCACA TAAAACCACA
351 GAACAAAACC CCAGAGCAAG CCCAGAGAGC TTGCCGTCTT GTTCTATAGG
401 CTTCTAGAGG ACTCTAGGAA CTGAAGAAGA TGTAATCCTG CGTGTTGGTC
451 CCATGCAAAT CTCAACCCAA GTCTCCCAA CCAGGCTACT TAGCAGCTTT
501 TCATGAACGG TTCAAGGATC ACCTGAATCT ATGGGRGGGT CACCTGAATC
551 TATGGGAGGG TCACCTGATC TATTGGTSCH TCAGAGCAAC A

ug164rcon

1 GAATTCGATT TATTGAAGCA GTAACAAGTT GGTCAGATAT TTA CTGGAAA
51 AAAGCAGTTT TAATGGTATT CAAAAATACT TAAAAAAGTA TTCTAGCACA
101 AGATTTCTTC GTAACTAGA TTATTTTGTA AACCTTTTCT ACGTCTTTTG
151 GGGTGTCAAGT TGTTAAGTGC TGAGCTTCTT TCTATTCCAA ATCTATCTTG
201 CGCTCCTGAA AAAGTGCAGT AAAGGCACTT GAAAGCTGTT TTCCTAAGAT
251 ACGATTTTTT TTTCTTCTT GCTGGTACTG CACTGTTGCA CCAAGTGTGT
301 GCAATTTTTA TTCAAGGTCA TCGTGATGCT GAGAAGTCTC ATTGATCACC
351 TGTCCATCTC TGGTCTCAAC CGTCTTAATC AGGAGTGTTT TTTTGAGTG
401 GGTGTCAACC AGAGGAAGTG ACTCCAGGTT AGTTTCTCTC AGGTTTCAGGG
451 AAGAAAAGGT TGGCAGAGGC AGAGAAATCC TGCTCTCMNC GCCTTCAGGC
501 AGCTTCCTGT AAGGNGGCGA NCGTCAATGT CCAGGGCCAD CTTAACATTG
551 AGCCAGATCT TGGAATTCAC GMAGGTGA

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ug165rcon

1 GAATTCCGAC TTCACCATCC CTATCAAAT ACTGTCAACT TCTAACCACA
51 ATAGTGACTC TGTGCTTGTC TGTTTAGTTC TGTGTGTAAA TGAAATGTGG
101 AAATGACCCT CCCTGCCCCA GCTGGCTGCC CTCCCCTTTC CTTTGATCTT
151 GACCACTCAT GGAAGCAGGA CCAGTAAGGG ACCTTCAATT TAAAACAAAA
201 CAAAACAAAA AAACAATAAA AAGGCTAATT AACAACAAAA AAAAAAAAAA
251 AAAAAAAAAA AAAAAAGGG CCGHGAATTC CACCACACTG GCGGCCGCTC
301 GAGCATGCAT CTAGAGGGCC CAATTCGCCC TATAGTGAGT CGTATTACAA
351 TTCCTGGCC GTCGTTTTAC AACGTCGTGA CTGGGAAAAC CCTGGCGTTA
401 CCCAACTTAA TCGCCTTGCA GCACATCCCC CTTHBGCCAG CTGGCGTAAT
451 AGCGAAGATG GCCNCACCG ATCTGCCCTT CCCAACAGTT GCCGTCATCG
501 CTGAATGGCG AATGGRCGCT SCCCTGTAGC

ug166rcon

1 GGCGGTAGGC GAGCAGCGCC TGCCTGAAGC TGCGGGCATT CCCGATCAGA
51 AATGAGCGCC AGTCGTCGTC GGCTCTCGGC ACCGAATGCG TATGATTCTC
101 CGCCAGCATG GCTTCGGCCA GTGCGTCGAG CAGCGCCCGC TTGTTCTGA
151 AGTGCCAGTA AAGCGCCGGC TGCTGAACCC CCAACCGTTC CGCCAGTTTG
201 CGTGTCGTCA GACCGTCTAC GCCGACCTCG TTCAACAGGT CCAGGGCGGC
251 ACGGATCACT GTATTCGGCT GCAACTTTGT CATGCTTGAC ACTTTATCAC
301 TGATAAACAT AATATGTCCA CCAACTTATC AGTGATAAAG AATCCGCGCC
351 AGCACACTGG CGGCCGCTCG AGCATGCATC TAGAGGGCCC AATNCGCCCT
401 ATAGTGAGTC GTATTACAAT TCACTGGCCG TCGTTTTACA ACGTCGTGAC
451 TGGGAAAACC CTGGCGTTAC CCAACCTTAA KCGCCTTGCA GCACATCCCC
501 C

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ug167rcon

1 GAATTCCAAT CTCAGAATAA AGGATGACCA CTGGACTCTC AGGATTTGAT
51 GAGGGATATC TGTGATCTCC TTTGAACAAT AATGGTTTCG GTCTGTCAGC
101 GGCAGTCAGC AGAAGGCTCT CCAGAGTGTC TAGATCACAA GTCTGCTTTC
151 CATGCACTGA GAGAAACGAC TTGCACCCTT CTGGTGGAGG CTCGTCAACT
201 GCTATCTGCT GGAAGGCTTG AATTGAGGCT GAGTAGGAAC GGAGAGAGAG
251 ACAAACCTTC AACAAATTCT GCTGCAGAGG GGACAGGAAG CGAAACGCAG
301 CTTCCAATAC GGCATCGTAA TAGGAGTGAT CAGTATCGTG ATGATCTGAT
351 GATCCAATGT TTTGAGTGGC TTCTACAAAA CTCCAAAATT TCTCTTGACT
401 GTCTTCTGCT AAGAACTCAC TGGCTTCCAG CAGCAGTGGG GCAGAAAACC
451 ACTTTGTGGT GAGAGAGGTG STAATGGCTT TTGAATTGGC TTCTGCTAAG
501 GAAACAGGC ACGGTAAGGC CAGTGCAATC WAGGAGATCT CRTGTATGTA
551 ACGGAGMCCT G

ug168rcon

1 GAATTGCCT GGAATGTCC TGGGGAAGAA GAGCAGAGTG TTTCTGCCCC
51 TTGGCCCAGG CAGTGCAGAC AGGAAGAATG CATGGGGTAA GGGTAGGCCA
101 GTAACCTCAC TTGCAAAGGA TGTAGCACTC ACTGGCTAGG ATGCATGGGG
151 AGAGAGTTAC TGCTGCCAGC TTTCTCTGG TACCCGCTAT AACTGGCAT
201 CCAGAGATGG GTGCCTGGCT TGAGGCCTGA GACAGTGATG CCCTTCTGCT
251 GGTGGCCAAT GCTCCTGTTA AGCTGCTTAC TGCAAGGCTC CATCTTCTGC
301 ATCTGTGTCC TGGCTGTGCT CCAGCTCCTC CTCGCTATGT GTTAGCAGTC
351 CCTCCTCATC ACCATCATCT CGAGTTTGGA CTTCTCCTTG GGGTGTGCCT
401 GCCTCAGAAG CCGTGTCTTC TTGGGGCGCT GGTAGCCGGC TGCTGCTGCT
451 GCAGTCCCG CTGCCGCCGC CGCTGCCACC ACCAACATTG CTAAGCCGC
501 CTCCACCACT GCTGCCTCCT CCTCCACACT GBGCTSKTCA CCCTTYT

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ug169rcon

1 GGAATTCTTT TTTTTTATAT GTAAAACGAC AAAATATTTT AATTTTCCAT
51 GACCACAGGC TCTCTTCAAG AAGGCTGTAC CTGTATGACC ACCAGGTGAC
101 AGCATGGATA ATGCTTCAGG ACAAGTCACA ATTTTGTACT AACAAATCAGT
151 TCAACCACAG CTTGAAATGT AGTTTGTCCC AGCTGCAAAA GCCACAAGAC
201 ACCAATCATG CGTCTTACCC CAGTACAGAC TTTTATAAAA CACACATGTA
251 TGTAATTAGC ACAATAAACG CGCTTATTAT GCACTCTAAC ATAGAGCACA
301 GGAATACACG CTATGGAGTG CAGCCCTCAT GTCTCCACAG GCAAGAGCTA
351 GAGGGTTAAA CAGGAGCCCA TGGTGTGACA GCAGGAGCTC GGAGCGCACC
401 ACTCTGCACG TGA CT TACCC TACTGAGA ACTGTCACCC TGTCCAGTGG
451 GTGGCAGGTA CAGTCTCATA AACAGTGTTA TTTCTAGAG CAGAGATGTC
501 AGTCTGGATG TGAGTCGCTG TTACCTAGAA GGSATTACAA GTCAGCTCCA
551 TAGAAGGTGG GCGTTTGGCT TTGGGGTCTGA GTGTAACAGT GTCCCGCAGA
601 CACTTKCACA CCCGCACCCC TGTGCCCCAG GGGAGTGCMC TTCC

ug170rcon

1 TGGAATTCCC AGTGTCACGG CACTGCTGCT TACAGGGCCC GCCACCTCGA
51 CAGCGGTCAT TCAGGTACGG GTCTTCTTGG TCCTCCTCGT CAGGAATCTT
101 AGCTGGGTCC TGAAGGTCTG CACCGTTGCC TTGGACAAAG TCTGAATTCT
151 CCCGGGCCTT CACACAGCAG GCACGGAACA CCAGCCCACA CTGGTAGCTT
201 ATCATGACAA TGGGTTTACA GGTCTGGTCT CGGGCCAGGG ATGCCTTTCC
251 CAGCATGCAA CAGTGGCAGC ACCTCTTTAT GAAGATGGTC TCAAGGCTAC
301 TGTGTAGCT GTGGAGCGAG GCNCAGCTTT CTTGGCTCGC TKGCCARGG
351 TTGATGCCCC TKGACAGTG GCAGCTCTTT CCAGTTTGGT TGTGACAACA
401 TTTKCTCATK GGRCCATTCT GCACDCCYTT GGATTCTBGA GG

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ug171rcon

1 GGAATTCCCG TCCAGCTCCC CGGGCGGTGT GGAGAAGCGC AAGCTCCCGT
51 TCTCCGAGGA GTGCTCTGAT GAGGAGGCAA AAGGCGATTG TCTGGAGTCT
101 CCGAAAGTAA GGAAGGGATC TTTGAGCTGC CTGGAGGCCG CATAGCCAGC
151 GAGCCACTGC GAATACACGT TCTCCGTGTT AGGCATCGCG GCCGGGGGCA
201 GGTCAAATC CTTCTCCAGC TTGATGCGCT TGGAGAAGGG GCTCAGCGAG
251 CTGGGGCTAC CCAGCAGCAG CTTTTTGGAC AGACCCCCCG AAGCCGATTC
301 GCCGGGGGAG CAGCCACGAC CATTAAAGT GCCATCGTCT ATGCGGTCTG
351 ACTACCGGC CACCGAGTCT TYATCACAAG TGTTCCCYAW GGSCCTCSGG
401 CTCTGGCCAG GTGGCTACSC TTATGCTTTT NNCCCAGGAC CTTGTGGAAG
451 GCCTCTCTBA AGTGCTGCAT GGAGCTGAGC ACCATGCCCT GCATGA

ug172rcon

1 GGAATTCCCG TTCTCCTGTA TAGGAGGCAG CCATGGCGCC CAGCCGGAAT
51 GGCATGATAC TGAAGCCCCA CTTCCACAAG GATTGGCAGC AGCGAGTGGA
101 CACTTGGTTC AACCAGCCGG CGCGCAAGAT CCGCAGGCGC AAGGCCCGGC
151 TGGCGAAAGC GCGTCGCATC GCCCCTCGCC CCGCGTCCGG CCCCATCAGG
201 CCCATCGTGA GGTGCCCTAC AGTGAGATAC CACACCAAGG TCCGGGCTGG
251 CAGGGGCTTC AGCCTGGAGG AGCTCAGGGT GGCTGGCATC CACAAGAAAG
301 TGGCTCGCAC CATCGGCATC TCTGTGGACC CGAGGAGGCG AAACAAGTTC
351 ACGGAGTCAC TGCAGGCCAA CGTGCAGCGC CTKWAGGAGT WYCKTCCAA
401 GCTCATNCCT GTTCCCCAGG AAGCCYTYTT

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ug173rcon

1 GAATTCGCTT GTTCTGTCAT TTTCTTTCT TGGTAACTC TCTGGGGATT
51 GGTCTGTWCT CAGCTGTGAC TATAGTCACA TCCTGGTTCC CAGCAGAAAT
101 KGTGAAACAA CCTGCWGCCT AGCCCACAGT ACTACAGTTC TCTGTTTTGT
151 TTCTGTTTCT AGCCCGTCTC GATACTGACA ACTGGAGTTG AAGCTGCTTG
201 AAGTAAGTCT GATGCTTTCA TATAAGTGAA TTTGTAGGAC TATTGCTTTT
251 WRTTTTTTACA ACAGAAGTAA TTCTGACATA TTAAGTGGAA AATCTAAATA
301 AGTATATAGA TTATATAACA TGATTTTAAT TACATKGGAT CCAACTACAT
351 ATGTGATTAG ATAATGTGTA TATGTACATA TG

ug174rcon

1 GAATTCGAAA TCCCTATGCT GDNMAGAGGA AAGCCAGCTA AGTTTTNWRC
51 TGTGTTTWRT TCTAAACGTG ATGGTGYTC TGAGGCCAAA AAGTACAAGG
101 CAAGTTTWNC AATATTTCTC TGCAAAGAAG CAAAGAGAGA AATAAGACCM
151 SCCAGCAATT GAATTT

ug175rcon

1 GAATTCCTCC GATTCATTTA TTAGGACATG ATCTCTGATG AATCTTTACT
51 TCCCAATTGC TAGGCTTACT AGCAGCAAGC ACACCTGCAC GAGSTCCAAC
101 ATGGGKTCTG GAGATCCTAC ACAGGCTAAC AATTTDCNNN VCTTCTAAAA
151 TGGAATTCTC ACACCAAACC ACTTACCTCT TCTTTGRTTT TCTGBACAAA
201 GTCAAGTCAA CATAGGACAG GCGTCGCTC T

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ug176rcon

1 GGAATTCAAG AGAAGGAAAG AGAGAGGGGG AGAGAAADAA AGAAAGAAAG
51 AAAGAAAGAA AGAAAGAAAG AAAGAAAGAA AAAGAGAGAG AGAGAGAGAG
101 AGAGAGAGAA ATAAAGAAAA RGCTAAAMMT DDMWRVWRCT TAARMTCTTA
151 TAGAACCACA CATCATTTTT GTTTGACTTA TATCCCMCTCT BGCAATMTCA
201 AAGTCCAGTC CAACAAGAGT TCCMGCTTCG GACACACATT TGGTCAGGAT
251 GATGGTGGTT ARTAWCTVNM TGTGNTCTGT CTAGRWCMAA ACTC

ug177rcon

1 GGAATTCCTC CAGGGTAGTC TGGAGGTGGT GATACCATAG GAGAATCCAA
51 GTTTACAATG GATTTCTATA CAATTTCTAA AGCATTTCTT CCATACTGTT
101 TAAAAAAAAA AAAAAAAAAA AAGATGTTTT AACCAGGCTC ACCATTTGGG
151 TAATTTTTTT GACCAATTAA ATGCTATAAA TTATAATTGT ACCAAATATT
201 CAGAAACTAT TATTTATAAA TATTCAGGAC ATTAATTACG ACCGCCTATT
251 TGTGCCTTTT CAGACAGCAG ACATTCAATA TGTTAATACT TTTTAAATT
301 TTAATAACTC ATCTTGATGT TTTCCCAAAA NTNCCAGGAG TATTTTCCAA
351 AAGGAATAAA AAAAATGTAT GTATAGATCA TGATATGTCA AATCCTGTCT
401 CACATGAAAA TACCAGAAGG CAAAGCTAAC AAGAGCAAGC AAGTAGAGTG
451 GTTAGNNHCA CATCACTAGA GACACAGAAA TGTACCTTGT TGTCAAAGTT
501 GAATCT

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ug178rcon

1 GGAATTCCAG AGGAAGGGAG CTCAGAAGAT GGAACGAAGG CTGATGAGAA
51 GAGCTCTGAC CAAGGGGTGC AGAAGGTGGG AGATACTGAT GGCCTGGTA
101 ATCTTGATGG AAAGAAAGAA GATGAAGACC CTCAGGATGG AGGGTCCCTT
151 NCCTCAACAC TGTCCAAGTT GAAAAGGATG AAACGGGAAG AAGGAACAGG
201 GGCTACAGAG CCAGAATATT ACCACTACAT CCCCCCAGCA CACTGCAAGG
251 TCAAACCTAA TTTCCCCTTC TTA CTCTTTA TGAGAGCCAG TGAACAGATG
301 GAAGGGGATC ATAGTGCACA CTCAAAGAGT GCCCCCGAGA ACAGAAAAAG
351 CAGCTCTCCC AAGCCGCAAG CTGTTAGTAA GACAGCAGCA AGCCCAGGGG
401 CAGAAAGAAC AGTGAGTGAA GCTTCTGAGC TGCAAAAGGA AGCCGCTGTG
451 GCTGGNCCTT CAGAGCCTGG NGGCAAATGC ATGAAACMAA GA

ug179rcon

1 GGAATTCTAA TCATATGTCA GAGAAATAGT AACTTCACCA TAAGTGATAG
51 TGAAATGAGG AACTGTGAGC TATAAAGAAG TTATGTTAAT GTGTGAGATG
101 TCTTTTCAAA AATAAAGTTG TACTATGGAC AAATACTATG TGAAACTTAT
151 TTATTGTAAT TTTTCTAGT ATTTATAATT ATTTTATACA ACTTTTATGT
201 GTTTTGTCTT TTCACCTGAC AACTAGGCAA TAATCTTGCA ACTTTCTTCC
251 AGGTCACCTA GATATGTTCA GTACATTACG TTCCTCTAGC TTGTACAGGC
301 AACATCCAAA AACTCTTCGA AGCATTGTGTT CAGATCTTCA GTATTTTCCA
351 GGTACAAACA AGTGTATTAT TTATTTTGRA AAACATAGTT ATATTTAGTA
401 AGACTTGTTG TNMSCMGDDG GTGGTAATTG AAGTACCTTA TTCCYTGGTA
451 TATTAAGT

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ug180rcon

1 GGAATTCATT CAAACACTGA AAACCAAATT TTATAACAA CCATCAAATC
51 TATGCAGTTT GCAGATTTTC CCCCCCTCT TGAAATAATT TCAGAAGCAT
101 ACACAGAGGG GTCCCTACAC TAAGAAGGCA CCAGGGCCCC AGTTTATTCC
151 AGTTTATGGC CTTTTCCTGT GTCCGAGGGC AGCCTTATCA GCAGGCATAG
201 ACTGGTCAAA CTAGCCCCGG AAAGMCTGCT TTATGAACTT CAATGACGAT
251 YCCATCCTCA AAAANGCCTA ATCAACYACC GTCTCCATTC TTTTCCMACA
301 CTGACTAGTT AAACCTTATT

ug181rcon

1 GGAATTCCAG GCTCGAGCGG CCGTATACTA TTATATWAAT CAAAACATT
51 ATCCTACTAA AAGTATTGGA GAAAGAAATT CGTACATCTA WGGAGCTATA
101 GAACTAGTTA CCGCAAGGGA AAGATGAAAG ACTAATTWAA AGTAAGAACA
151 AGCAAAGATT AAACCTTGTA CTTTTCGATA AWGRACTTAA CTHAGAAAAC
201 CTTCTTAACT AAARGAATTA C

ug182

1 GAATTHGGCA TAAATCAAAG GGGGTGAAAT TAAAGCAATC CTTTCTGTTA
51 TTTCTCACAA GTGGCAGATC TGTATTTTGT TTATAGAAGA CTGTAGATCC
101 TTTTAAATGA CAGACAGAAT TCTTAARRRA TTTTAAGGCA TGGAGAGGTA
151 AATGACAGGT TTGTACATGG AGTAAATAAG GTATCAAAG TAGAAATATT
201 AAATTATGGG AGTGGAGAGA GAGAGAGAGA GAGAGAGAGA GAGAGAGAGG
251 AGAGATCGAC AGAGAGAATA CAACGTTTGG TTAGT

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ug183rcon

1 GGAATTCGTG ACCTCACTGC TTAGTTCCTG GAAAGCTTGG GACAGACAGG
51 GGCCTTGGCT AGACTGTCCC CAACACCCAC TCCCTGCCAT GCTCAGTGTT
101 GGGCTTGGGT TTCACCACTG GGGCAGCAAG GCAGGCCAGC GGGGCCTCTC
151 TGGGCTCTGG AAACAAGCTC TGCCACATAG CTCTGGGCAC AGTCCATCCC
201 CTGGGGCCTG AAGGAGGTCA CCGGGAGGTG ATCTTTTCC ACCTCTGATT
251 GAGCAAGACA AGGCCACTGG GGACAACTGA ACAGCACAGC CAACTTTGA
301 AACAGAGAGA CAGGGCCAGG CAAAGTGCCC ACCCTGCCCC CACTCTTYCT
351 GCGTTCBABN CCAGTCTCCC TGGGGGAGTC AGTGACGGGA TCTGGGGGAT
401 GTTCCTCTCC AGATCTGTTM ACTGGCCTTT TAGAAATGCC TCCTGGGGAT
451 TGTGAATTAG TAGAGCAGTT TGT

ug184rcon

1 GGAATTCATA AGAATGACCA AATAAAATTT TGGGAGCAAT AAATGTAGGA
51 GAAAAATCTT TGGTGGGGGG TTTGGGAAAG CTTAACTTTT TAAAGGATAA
101 TGTCTTTTAA AAAAGAACAT CTCTGGCTCT GACTGTTGAA AATACTTAAG
151 ATATACATAC CAGTTTTATT TGCCTTAAAA TCAAACAGAG AAGCAATGCT
201 TTAACAGATA AAAACAGAAG GTCAAACCTAG GGCTAGAGCC TGTTAGGGAA
251 AGRAGAAAAG GCTAACCTAG KGGACTCAGT GGTGTAACT GAAGATAGCT
301 ACCACATGCA AGATGTWCAC GGGCAGAGAG TTTATCCTGA AA

ug185

1 GAATTCGCGC GCTGTSTTCC CGCTCGCGTC AGGGACCTGC CCGACTCAGC
51 GGCCGCCATG GCATCAGATG AAGGCAAGCT TTTKGTGGG

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ug185rcon

1 GGAATTCTCT CCATTACTTA CTTGTCTCTT CTTAGTGAGT GGTAACCGWT
51 GAGTCTCTAA GAGSTCTGGG GTCATCTCAG GAGTGCTATG CTCAGCTTAT
101 GCATTATGGC ACCCGGCAGG GGTCATTTTG GGCATGGTCT GCTCCCCAGA
151 TCAGTGTGAG CACCAGACTG GTGATCATCT CAGGCTCCCT CCCTCTTGGG
201 AGCCCCATAG CACCTGGTGG TTGTCTCARG GTCTTCTGTC TTGGAHTCHM
251 TYCCACACAG CCTGTGGTCC TAGGCAGGAT TCC

ug186rcon

1 GGAATTCGGG AATCCTTACC ATCACACAAA ACTTACATCA GTGCTGTGAA
51 ATGTAACAGA AAATCTGGGG ATGCCTGACT TTKGTTATTT CCCTGGTATT
101 TTATTAAGCT TGAGTATGGT TAATATTTAT GCTGGCGTTG CATTAATCTC
151 AAAAGATTAG CACCTATATT CCATGGATTG TCTCGHGCTT TAGTCCAAAT
201 ATTTTAAACC NGGGCATGGC AGTACACCAC CTTTAAHCCC AGCACCTGAG
251 GGAGGCAGA

ug187rcon.

1 GGAATTCCCA GACTGAGGAA GACCCGGAAA CTCCGGGGCC ACGTGAGCCA
51 CGGCCACNGC CGCATCGGTA AGCACCGCAA GCACCCAGGC NGCCGCGGGA
101 ATGCTGGAGG CATGCACCAC CACAGGATCA ACTTTGACAA ATATCACCCA
151 GGTTACTTTG GGAAAGTTGG TATGCNGCAT TACCACTTGA AGAGGAACCA
201 GAGCTTCTGC CCAACAGTCA ACCTGGATAA ACTGTGGACA TTGGTCAGCG
251 AGCAGACACG GGTCAATGCG GCAAAAAACA AGACTGGNGT NNMTCCCATC
301 ATTGATGTTG TTCGATCAGG CTAACACAAA GTTCTGGGCA AGGRAAAVVT
351 CCCTAAAGCA ACCTGTCATC GTGAAGCCAA ATTCTTCAGC

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ug188rcon

1 GGAATTCGGA GAACTTCACT TCAATCAGCT TCCGAGGGTT TAGGGATCGA
51 TGCCAGTACC TGCAGGTGCC CACAGGCTTT GGCAACACCA CTCCGGCAGT
101 GTAAACAGCT TGGAAAATGC CCTCCAGGTG GACCCGCCGG GTGATCTCTC
151 GGATCAAAAC TGGAGCCACC CTCTTAGAGC GCAGCTTCTT GTGGACACAC
201 AGGAAGTTGA TCTCCACCAT CTTCTTCTCT GTGTCATAGA TGTGGATGTT
251 TGCTGGGATG GCACTGATGA ACCCAACCAG TTTCCGACTT GAGACCACTC
301 GGACCCCAACA GTGCCACTGT GGGAGCCAAC CTGGTKGCCB GAGAGCCCAC
351 AAGAGARACT TCTDGGGAA TAGTCGAATC GGAACATATK GTCATCATCT
401 TCCACGGTAG TTTCT

ug189rcon

1 GGAATTCTTT TCTATTAACG ATTTCAATCT TCATGAAGAC AAAGGGACAA
51 TAAGAGATGT CATGACCCCA AACTTAGGG TAAGCAATTT TTGTKGCATT
101 TGTTATTAGC TGTTCTTGAA TTAGCTTATT CAAATTTTCT TACAGGAGCC
151 AAAAAGGAGG GAGAGACACC CAATTTGAWT ATTTTAAAAT TTAAACAAAG
201 AAGTAAACAA ACCYGTAAAC AKGTTTCACA TAGCACAGTT TGGGGAGGGA
251 GAACAAATCA TTTTCTGVCC TTC

ug190rcon

1 GGAATTCCCC GGCTCGAGCN NGCCGCTTTT TTTTTTTTTT TTAAAGCAAA
51 ATCTTGGAAT ATTCTTCCCA TATCATATAT TTTATTAGAC AATATTATGA
101 TTTTGTCTG GTCTTTAATA CCCAAAGGGA TGGCTGTCCA CTAACCTCAA
151 ACCACCAGKT CCTTCACTAC CTACAACAGT TTAGRATCAG KTTTAAACC
201 CCTTTCTCAT CAAGRGGCAG GACAATTAA

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ug191rcon

1 GGAATTCTTT TTTTTTTTTT TTTTAAATTC AGACAACCAA GTTCATTGGA
51 AGTGTATGTA AAATAGAAGG TAACCTTCCT GCAGGAGAAC CAAGGGGCTC
101 TCCTGTGAGG TAGTGCCACG TTATGAAAAC TATGAAAAC TAAAAGTATC
151 CTCCCTTTTG CAAAGGTTCT AAGCTGTGTT ACAGATACTT ACAAGAGGTT
201 TAAGATGTGA GTGAACGTGT CCCTATTGTG TTCTCATTTA TAGCCTTTTC
251 TATGAACTGG TGATGTTTTG AAGTATGAGT TTATGAAGTC TCTTTGTGAA
301 CCTGGACTTT TATTTCTAAA GTTTGAACYK GTGTGACACT AGAGKTTACC
351 TGAATACAA

ug192rcon

1 GGAATTCCCC GAATTGTAAA TAACTTCATA TTGGGATCTG CATTAGGTGG
51 AGGGCTTCTC TGCAGTTCTA TTCTTGCACC AGACTGTTGG CTTATGCTTT
101 TTATGGTTTC ACCTCCTTTT TYCAATGATC AGTCCAGTTT TCCCAGTTGG
151 CACAATGAAA TTAAACTCCT GGNGTCCACC CGGGGGCCCC ATATTCCAGT
201 TTCCTTGACC TCTACCTCGT CCTCGACCAC CAGGTCCCGG TCCACCAGGA
251 TTGCCAGCCT GAACACTTCG TAGAAGGTCT GTGATTATTT CTGCAGCGTG
301 CTGACACCTG TYTGGAGGTC CTGTTTATCT GTGCCATWCC TAWTCAGGTG
351 TTGTTCCATC AT

ug193

1 GCGGTTAGGC GAGCAGCGCC TGCCTGAAGC TGCGGGCATT CCCGATCAGA
51 AATGAGCGCC AGTCGTCGTC GGCTCTCGGC ACCGAATGCG TATGATTCTC
101 CGCCAGCATG GCTTCGGCCA GTGCGTCGAG CMGCSCCCGC TTGTTCTCTGA
151 AGTGCCAGTA AAGCSCCGGC BGCTGAACCC CCAACCGTTC VCCAGTTTGC
201 STGTSBTCAG ACCGTCT

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ug194

1 GAATCCGCGG GGACCAGCCC GGCAGAATGG CTCCCGCAAA GAAGGGTGGC
51 GAGAAGAAGA AGGGCCGTCT GCCATCAACG AGGTGGTGAC CCGAGAATAC
101 ACCATCAACA TTCACAAGCG CATCCATGGA GTGGGCTTCA AGAAGCGTGC
151 TCCTCGGGCA CTCAAAGAAA TTCGGAAGTT TGCCATGAAG GAAATGGGGA
201 CACCAGATGT RCGCATTGAC ACCAGGCTCA ATAAAGCCGT CTGGGCCAAG
251 GGAATAAGGA ACGTTCCATA TCGCATCCGA GTACVCTTGT CCAGAAAACY
301 GTAATGAGGA TGAGGATCCC CAAAC

ug195

1 GGAATTCGGC CCTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT
51 TTTTTTTTTT TTTTCCATT TTAGTGGACA TCTTTATTGT TTAATAGATC
101 ATCAATTTCT GCAGACTTAC AGCTGGGATT TCATCAGATT GCCATGCTGA
151 GTCAAGAACA GTGAGTGACG AAGCTAACCA GAGGCTACAT ACGTCAGAGA
201 GAGAGCTCAG CCTTTACAGC TCACTTCCTT TCTCAGGCAG AATATAAATA
251 GACGCCCTCT ACAATGCACA ATGGTTTTAG TACTAAGGA ATTTAAATGG
301 GATCTTGAAG AACACAGACA AATCCTGATG CAGTAAAGAC GAGCTGAGAT
351 GCTGTGCAAC TGTTTAAGGG TTCCTGGTGC CACATCTCAG CCACTAGCTG
401 AATCTTGCGC TAACACCAAA TGGAGAWGTG GAAAACACTA GGTTGACTTA
451 GGAGCACAGG AACCAAAGGC GGGAAAGAAA ATACTAAACA TTGCTGAGAG
501 CATCCACCCC AGGAAGGACT T

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ug196

1 GAATTCGCTA TGAGAAGGTG GCGAGACTGC AGAAGGTGGA GACAGAAATC
51 CAACGGGTCT CAGAGGCTTA TGAGAACTTG GTGAAGTCAT CTTCCAAAAG
101 AGAGGCTCTG GAGAAAGCCA TGAGGAACAA GCTGGAGGGC GAGATTAGAA
151 GGATGCATGA CTTCAACAGA GATCTGAGAG ACCGTCTAGA GACTGCCAAC
201 AAGCAGCTGG CAGAGAAGGA GTRCGAGGRR TCCGAGGACA CCAGGAAGAC
251 CATCTSGSAG CTCTTTGCCA AACATAAAGA AARCCAGCGG GAGAAGGAGA
301 A

ug197

1 GAATTCAAAC ACCACTACAA AAGACACTCT ATCAAAATCA GAGTAAGAAA
51 AATATGAAAA CTTTCTTGCT TTCTGATTAT CTTACGTGGA ACCGGAAGGA
101 AAAGCTAGTG AGAGGATATC AAGTCACTTC TAACAACCAC AGAGTTATAA
151 ACCTATCTGG TGTTGAAAAT CAACATGAAA ACGAACCAGT CACTTTGACT
201 AAATATAAGG CTGTTTGTTA CATGCCTTAA GGAACCACTG CCATGTTCAA
251 CATGTGGCAA AAAGACAGGG CATGTTTGGA ATTCATCTTT AAAACATCCT
301 GTCTGAATGT ACCTTACTCC GAACTAAGTC ACATTTTCTA GAGGTCCCAT
351 GAGAAGAAAG TWAAGGATAT CGGTACATTA CTCTAACAAA AACTTCAGTT
401 AAGCATTACC GTGGCTGTTC ACTGCTAATA ACTAGAGRGG CATGTTAAGC
451 TAGGGAAGCT AAGGTCAGCA CGACGTCTGT AAA

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ug198

1 GAATTCAAGG TTTTGGATAC CAAAACTAC AAGCAGACTT CCGTGTAGAT
51 ATGTTGATGA AGATCCTGAC TCTCTAGGAT TGTACTTTGT GCTTCAACTA
101 TTCAAGGCAT AGCATGAATG GACGTCCATC TTACAAAATA ACCTGTGTGA
151 AGATGAATGA TTCGGCCTGA AGCAGGGAAG TTGATCAGTA TTGATTTGTC
201 TGCTCTCACA AAGTTCTGAA CAGCAATGAT ACGCCCAGTT TTCTGCCTTA
251 AGTGGTTGTT TTCCTTGTGA GCATTGTACT GAACTAGATT AAGAGGACAA
301 AATTAATGAA TAAGGTGTTT CHTGAACTTC TGTACGCACT GTCTACTCAA
351 CATTATCCAT ATGATTCTTA CCTGATCCAT GCATTTATTT ATAGTTACTA
401 ACAAATGTGA AAWTACTGAT CCTTTGCTCT GAACTTGACA TCCAGAHCYC
451 AGATTTCTCA TTTATTCAC

ug199

1 GCTGGCGCGG ATTCTTTAHT CACTGATAAG TTGGCTGGAC AATATTATGT
51 TTATCAGTGA TAAAGTGTCA AGCATGACAA AGTTGCAGCC GAATACAGTG
101 ATCCGTGCCG CCCTGGACCT GTTGAACGAG GTCGGCGTAG ACGGTCTGAC
151 GACACGCAAA CTGGCGGAAC GGTTGGGGGG TTCAGCAGCC GGCCGCCTTT

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ug200

1 GGAATTCGGC AAACGCTCAA CTA CTGAGCT ACAGTCTGAG CTCAGTATAA
51 TTTTAAAGGA TTTTACCAAT GCTTAAATGC TGTTGCTTGA TGTTACTACT
101 TATCCTGGTA TAGATGGTGA AAATTTTCAG ATATGTGGAT TTTTATCATT
151 AACATGGAAA AAGAAAATTA GTTTTAAAAA GTTATGGATG TGTCTGTGTA
201 GCAGGTGCAT GCATTGCCTA TGGAGTHCAG ATGTGGGTAT CAAAGTCTCT
251 GTAAGTGGAG TTACAGATTG TTGTGAACTG TCATGAGAAT ACTTGGAAC
301 GAACTGGGC CCTGGGAAGA GCAAGCAGTA CTCTCACTG CTGAGCCATT
351 TCTCCAGACA GCAACATCCT AAACMGGTAT TCTGGAATCC CACACCCCTA
401 GTCATATTTT CAGTTAGGCT AAAAGATTCA CTCATACTTT CTCCTCTTAT
451 ACAGGAATCT GTGTATCTCT GTACAGA

ug201

1 GGAATTCATC CTTTCAAATT ATAATCATTC TGATAGAGGT ATTTTAATAT
51 ACATGCTTTT AAAAACAAAA CAAAAAATA CTGTCAGTAT GAATACTGAG
101 CCAGACTGGC ATATATAGAT TTAACATCTT GTCCTACTAA GATTCTTAAC
151 TGTATAAAAA TAATATGGCT TTTAGACATA TAGGATACTA ATTTCAATGA
201 GACCCTTATC TCTTTATTGA ACATTATGTT AGGGACAGTA AAAGCCATGC
251 ACTTACCTGC TACCCATTGG AAAATAAAAC GACTGTCCCC AACCTAAGTA
301 AGTATGAAAA TTAGGCTAGC CTTATTTTCAT CTTTAACTAC TAAAAGTAAG
351 TCTATAGAAC TTAATAATTA AGCACTATTA GTTGTCATGG CTATATTTTA
401 TTTTCCAAAA ATTAAGTTAA AAGTCATTAA TGTCATTGAT TATATACATG
451 TATGTTTTTC TAATAATTAA AATACCTTTC AAATCCATGG AATGTCTGGC
501 TTTTAAATGT AATTTGACCT TTYCGCCYTG ATTTT

103/472

ug202

1 GGAATTCTTC TGGTCATGGG CAACATTATC AACTGGTCGC TGGCTGCATA
51 CGGACTCATC ATGCGCCCCA ATGACTTTGC TTCCTACTTG CTGGCAATTG
101 GCATCTGCAA CCTGCTGCTT TATTTGCCT TCTACATCAT CATGAAGCTC
151 CGGAGCGCGA GAGGATCAAG CTCATCCCTC TGCTCTGCAT CGTCTGCACC
201 TCCGTGGTCT GGGGCTTCGC GCTCTTCTC TTCTTCCAGG GACTGAGCAC
251 GTGGCAGAAA ACCCCCGCAG AGTCCAGGGA GCACAACCGC GACTGCATTY
301 CTYCTCGACT TCTTTGATGA CCACGATATC TGGCACTTCC TGTCCTCCAT
351 TGCCATGTTT GGGT

ug203

1 GGAATTCCAC ACATGCACTT ACTCATGCAT GCATGCACAA ACACATTACT
51 ACTGATACAG ATGTCAGTAT TCCCAGAAAG AGAGTTCAAA AGATATTATG
101 ACTGTATTCC ACGTATTCAA AAATATCAGT TGAATAAGAC TAAAATTAAG
151 CTTATAGCAA AAAACTACAC ATAGTGTAAC AGGAAGAATA CAAGAAGTTG
201 ACAGCAGGCT ATACTATGTC ACAGGTTGGT GACCATGGAG ACAGTGA CTG
251 CTCAGCAGTA GGAAGTGTGC TGAGTGAATC ACTGAGACAA ACTTCTTTTT
301 AATGGGCAGA ACATCCGTGA ACTTCCTTTA ACCAAATAAT ATATAGTTGG
351 AAAAGTCAAA GAAAAAAGAA TACCTAGAAA AGTAATATCT GAAAAATTC
401 CAAATTTTGT ACAAACCATG AATCCATATA TTCAAGCACA AGAATCAAAG
451 AAAGAATTAC ATTTAAGATT CTAAAAGATG ATTAGAAAGA GAAAATTATA
501 AATAGTTATG TGTTATTTAA AAAAAAAAT CTATGACGAC TAAGGCTGGT
551 GGTATATACC TTCCTCCTT GAACTCAGGA AGCCBAGGCA GGTARGGTGT

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ug204

1 GGCGCGGATT CTTTATCACT GATAAGTTGG TGGACATATT ATGTTTATCA
51 GTGATAAAGT GTCAAGCATG ACAAAGTTGC AGCCGAATAC AGTGATCCGT
101 GCGCCCTGGA CCTGTTGAAC GAGGTCGGCG TAGACGGTCT GACGACACGC
151 AAACTGGCGG AACGGTTGGV GGTTCAAGCAG CCGGCCTTTA CTGGCCTTCA
201 GGAACAAGCG GCCTGCTCGA CGCACTGGCC GAAGCCATGC TGGCGGAGAA
251 TCATACGCAT TCVGTGCCGA GAGCCGACGA CGACTDGC GC TCATTTCTGA
301 WCGGGAATCC CGCACYTTCA GGCAG

ug205

1 GGAATTCGTA AGAACAAGCA AAGATTAAAC CTTGTACCTT TTGCATAATG
51 AACTAACTAG AAAACTTCTA ACTAAAAGAA TTACAGCTAG AAAMCCCCGAA
101 RMCAAACDAG CTACCTAAAA ACAATTTTAT GAATCAACTC GTCTATGTGG
151 CAAAATAGTG AGAAGATTTT TAGGTAGAGG TGAAAARCCT AACAGCTTGG
201 TGATAGCTGG TTACCCAACM TGAATTTAAR TTCAATTTT

ug206

1 GGAATTCGTC TTGTCTGGAC AAAAATGGTT GGTTTAAAAG GCCAAAGAAA
51 GTGCTGGTAG AAATGAGAGT ACTAATTAGC CTCCAAAAAG AGACTGTTCT
101 CATTGTCTTT GTACCTCAGC CATAGCCTGG TGCCTGGGC ACATGGTCAG
151 TGTCTCAGAA AATGTTTGTT GAATGAATGT TGTTTGTTTG TTTGTTTGTT
201 TGTTTGAATT CTGGAAATTA TTTGTTGAAC ACAAAGACAC CCAGCACCTA
251 CTGGGTGCTC ACTGTTGTGA GAGACTAGGG CTGGHHVCTG GGCAGTAGGG
301 ACAGCCTCAT TGGCTAATTA AGGATTTTTT TGCAATTCCV GGCGATTAC
351 AAGGCACTTT CTTGTGAGTT ATGTAGT

105/472

ug207

1 GGAATTCCCC TAATCTCCAT TAACGAAAAT GACCCAGACC TCATAAACCC
51 AATCAAACBC CTAGCATTCTG GAAGCATCTT TGCAGGATTT GTCATCTCAT
101 ATAATATTCC ACCAACCAGC ATTCCAGTCC TCACAATACC ATGATTTTAA
151 AAAACCACAG CCCTAATTAT TTCAGTATTA GGATTCCTAA TCGCACTAGA
201 ACTAAACAAC CTAACCATAA AACTATCAAT AAATAAAGCA AATCCATATT
251 CATCCTTCTC AACTTTACTG GGGTTTTTCC CATCTATTAT TCACCGCATT
301 ACACCCATAA AATCTCTCAA CTAAGCCTA AAAACATCCC TAACTCTCCT
351 AGACTTGATC TGGTTAGAAA AAACCATCCC AAAATCACCT CAWCTCYTTC
401 ACACAAACAT WAACCACTTT AACAACCAAC CAAAAAGGCT TAATTAAATT
451 GT

ug208

1 GGAATTCGAA AAAACAAAAA AATTCTGCAT GCTCAGATGC ACAGACTAAG
51 ACTGGGTAAC ATAAGCCATG CAATTGCCAA CGTGCTACCA TAATATATAG
101 TATAGTGAGT ATTGTCATCA CATGACAGTA TTCAGTGCAA TAGTTATGTA
151 AGATTTACTG AATTGTAAAG AATTGGAATG CATATAGGAT ATATTTGATC
201 AGTTTTCTTA CATTAGCAT ATTTATATTA CCCATCTTAT TTGTGTTATC
251 TCTAATGTTT CATTATGGCT CGAGCCTTAT AAATTAATGT CACTCACAAA
301 TTCTTATTAG GGAAAATAGC CGTATGCTAC CTGCTAATAC TTACCAAATT
351 AGTATCTTAC TTCAAAAGAT GTTTTGCTAA AATTTTAATA AGGAAATAGC
401 ATGCTATATT TTCTAATTTT AATTATATGT GAACAAGTCA ACATAATTTA
451 TATGARTTTA AATCTCCAGA TACTTCAGAA ATTGGTGCTT GTACACGTC

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ug209

1 GGAATTCAGC AGAGCACACT CCCAAGTGCA CAGATTTAAC ACAGTAGCGA
51 CTATTTGCAT TTACAGGACT TTTCAACAAT CTGAAAAAAG ATCAACTGTT
101 GAAGATCTGT AGGTATGTTA CAAAAACCAC TGGAGTTCTT GTACAACAGT
151 ATGCGTTCTC AGCAAAACCA ACACCAGGAG ATCCGCATGG CAACTGAGTA
201 ACCGATCCAC TCCCGCCAAC CCAGGGGCAG GTCTCCGTGA GCTCTAAGCT
251 GTCTTATACA AAAGTTAAGG CAAAGTCATT TTCAAGTTTA AATAAAATTC
301 AAGTCTTTAA ATATTTGGAT GGAAATAATT TTTTTYCCTT AGAAAAAATA
351 AAAGRRAAAA GAAACCAAAA CAACCTTCAG TCTCATTAAA WAGCATTTT

ug210

1 GGAATTCGTT TTATCTTAAA ATCATATGTT TAAGGCAGTA AGACACTAAA
51 CCAAAACAAA AAACAAAAAA CAGGGACATT TTAACAATC AACTCCCATT
101 GTTCTCTGTG GCATTTATTC AGCAAGCACA TGGAAATAGC AAAMGAGAAT
151 CTACAATAGC TGTCCCAAAT GCAATTACAC ATG

ug210

1 GAATTCGTTT TATCTTAAA TCATATGTTT AAGGCAGTAA GACACTAAAC
51 CAAAACAAA AACAAAAAAC ARRRACATTT TAACAATCA ACTCCCATTG
101 TTCTCTGTGG CATTTATTCC AGCRAGCACA GGAAATAGCA AAGAGAATCT
151 ACAATGCTGT CCCAAAGCAA TTACACRTGG AAAGWTTACC AATGCAGGGC
201 TGGGSTTTGA AAGCCAAAGT GTTAGTGMAG AWACAGAGCT TGACACCTAG
251 CAAGRAGARA CGAGTTTGGA GCSTTGGTGC TCAAGTMTTG AAAGATTGAA
301 MTMTTGAAG TMGTTCATTA GTCATCAAAG GTCACTATGM AATAGTTGCR
351 ACTTTAGGTG TAAATCTGTG TGGGGAGTTT TTATAGCCTT TGGCAG

107/472

ug211

1 GGAATTCCCC CCTTTTACCA GTGGATGGAC ACAGAGAACT TCGTGTTGCC
51 TGATGACGAT CGCCGTGGCA TCCAGCAACT TTATGGAAGC AAGTCAGGGT
101 CACCCACAAA GATGCCCCCT CAACCCAGAA CTACCTCTCG GCCCTCTGTC
151 CCAGATAAGC CCAAAAACCC CGCCTATGGG CCCAACATCT GTGACGGGAA
201 CTTTGACACC GTGGCCATGC TCCGAGGAGA GATGTTTGTC TTCAAGGAGC
251 GATGGTTCTG GCGGGTGAGG AATAACCAAG TGATGGATGG ATACCCAATG
301 CCCATTGGCC AATTCTGGAG GGGCCTCCTG CATCCATCAA TACTGCCTAC
351 GAAAGGAAGV MHCAAATTTG TCTTCTTCAA AGGAGATAAS ACTGGGTGTT
401 TGACGAA

ug212

1 GGAATTCCCG GCTCGAGCGG CCGCTTTTTT TTTTTTTTTT TTTTTTTTAA
51 TCATTAAGGT AATTTTATTA ATATAGATAT CTGCAGATCA AGTGAATGGT
101 ACTAATGAAT AGTTTTGGTG ACCTCACCT CTCATGTATA AACTGAAGA
151 TTCTTCCACT CCATGTTTAC TCCAGACTCT CAGTTTTAAA GCAAGCATCA
201 CAGAATACCA GGCTCTTACA GTGATCGGGA GCYAGAGCTC TTACACAAAG
251 CCATACTCCA CMHGCTGACA GTTTCTTTAG TAATACATAT AGTACTATCA
301 GATAACTCAT TCCAACAACA AAAAATTAAH CATTATGTCA ACCAATTGCB
351 CCAT

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ug213

1 GGAATTCAGC AGAGCACACT CCCAAGTGCA CAGATTTAAC ACAGTAGCGA
51 CTATTTGCAT TTACAGGACT TTTCAACAAT CTGAAAAAAG ATCAACTGTT
101 GAAGATCTGT AGGTATGTTA CAAAACCAC TGGAGTTCTT GTACAACAGT
151 ATGCGTTCTC AGCAAAACCA ACACCAGGAG ATCCGCATGG CAACTGAGTA
201 ACCGATCCAC TCCCGCCAAC CCAGGGGCAG GTCTCCGTGA GCTCTAAGCT
251 GTCTTATACA AAAGTTAAGG CAAAGTCATT TTCAAGTTTA AATAAAATTC
301 AAGTCTTTAA ATATTGGATG GAAATAATTT TTTTCCTTAG AAAAAAAAAA
351 AGAAAAAAGA AACCAAAACA ACCTTCAGTC TCATTAAATA GCATTTTGTG
401 GAATAAGCTG TATGGTTACA TATAGCAGGA AATAGTTTAA TGTCTGCTGC
451 TTAGAATACT TAAAGAAAAA TCTTAGGCGT TTAAACAA AATAATTTAT
501 CTGTAACCTT ATTATGAACT TGCTAACTTG ACTGCACTCT CGCTCCTCAG
551 AAGTGCCGCT TCTGACAATC TAGGA

ug214

1 GGAATCCCG GCTCGAGCGC CGCTTTTTTT TTTTTTTT AATGCCATAG
51 CAGTAGTAGT TGGGTCTGGT GGTGGCACAC ACTTTTAATT CCAGCGCTTG
101 AAAGGCAGAG ACAGGAGGAT CTCTTGAGTT TAAGGCTAGT CTGGTCTATA
151 GGCCTGCAAG GACTTGAGGG GAAATAAAAG GTCACTACAA GCCATTTCTT
201 ATTTTAACCA ATAGCATTAA ATTGTGCCTA TAGTGATTCT TAGTTGAGAC
251 ATTGTCAGA ATGACTTCAT TCTGTATGCT TTTGCCTATG TCTGTGTTGT
301 ATGCATTAAA TATTTTGAGT GACAATCTTT TAGTAATTAT ATTTTTTCCA
351 CAGAATAATA AAATATAGGA ATCTTAAGCA GTGTATGTAA CAATATTTTC
401 CTTGACGTAG ACAGCACATA CTTTAAAT ACAACTTAGG CAAGCAAACA
451 CTTTGTACT TAATAATTTA ATGAATAGAA GTTAGTTTTG TTTTAGTCT
501 TAAGGGTGAA AAGGTAATC AGGCTTTAAA GCAAGACMGC ACCAAGTGCG
551 AGCTGTGATG TSCCAGCAGT GTAACCTTC CCCACCCC

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ug215

1 GGCGCGGATT CTTTATCACT GATAAGTTGG TGGACATATT ATGTTTATCA
51 GTGATAAAGT GTCAAGCATG ACAAAGTTGC AGCCGAATAC AGTGATCCGT
101 GCCCCTGGAC CTGTTGAACG AGGTCGGCGT AGACGGTCTG ACGACACGCA
151 AACTGGCGGA ACGGTTGGGG GTTCAGCAGC CGGCGCTTTA CTGGCCTTCA
201 GGAAC

ug216

1 GGAATTCGTC GAGCGGCGCT TTTTTTTTTT TTTTTTTTTT TTTAACATA
51 AGCAGGCATG GTGGCTCAGG CCTGTAATCC CAGAATGTGG GGCTGCAATA
101 GCATGTCACT GTGACTTTVV VCCATTTC AAAATCCACT TAAACCATCC
151 CCAAACGAG TGTGAGAGAG GATTACAGAT AACTAAGTAA AAAATGTCAG
201 TGGTCACCGT TATCTATTCC TGGGTCAGAA GCGGCATGTC CATGAAGGC

ug217

1 GGAATTCCAA CGGTTGAAAA CTTCTGGATT AGAGATTTAG AGCTGTGCTT
51 CTGGCAACTG TGTTCCTCCA TGGTGGACTT CCAGCTAAAC AGCACTGATT
101 CTTGTCCCTG TCATGTCAGA TACTGCAGGG TACTCACTCA CCACAGTAAA
151 GTCATGCTTT CAAAACCACT CACAGCTACT CAAAGGCAAC GGCAAACAAG
201 CCCCAAACAT CTCATGGCTA TATTAACCTG GAATTCTGTC ACGTCAGGAG
251 CATTCTTATA GACAAAACAA TGTAACACTT AGGATTTAAC AACACAGTAC
301 TGGTGTACG CCCAGAATCT TACCCATCAT CCCAGAAGAG ACCAGCACCA
351 AGGGTCAGAG GATGGAATTT KCCATACAAG ATGAGGGAC

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ug218

1 GGAATTCCCG ATGCTGCTTG GAAGCCTTGG CTGAAACVCT ACCACAGCCA
51 GACCTACGGC AACGGGTCCA AATGTGATCT CAACGGGAAG CCCCAGAGAAG
101 CTGAAGTTCG GTTCCTGTGT GACGAGGGTG CVGGCATATC TGGGGACTAC
151 ATTGACCGAG TAGATGAACC CGTCTCCTGC CCTACGTACT GACCATT CSC
201 ACGTCAAGVC TCTGCCGCAT CCTCTCCT

ug219

1 GGAATTCGGC GCACACCTTT AATCTTAGCA CTTGGTAGGC AGAGGCAGGT
51 AGATTTCTAA GTTTGATGCC AGCCTGATCT ACAGAGTGAG TTCCAGGACA
101 GCCAGGGCTA CACAGAGAAA CCCTGTCTCA AAAAAACAAA AAAAAAACA
151 AAACAAAAAA AAGTATGGGC AAAAGAGAAG AAAAATATCC CGGAAAGAAC
201 AATATAAAGA ATGATGTTCC CTTTGACTGA GGGGCTTTGC ATATTACAGG
251 GATACCGGCC TGAGACAGCT GCCTCAAGAC AGGGACAGCG AGCCTCCTCA
301 GAGTCCACTT GTTCCAAGTC CCAGAGTCAC CCCCTATVYC TCGATATTGT
351 ACCTTTAACA CMKGTTGTTA AATGGCCAGG CATWTGACAA ACCAGGGAAA
401 TAAGTCTATA ATGAGGAAGA AATTGTTCC

ug220

1 GGAATTCCTT ATAATTAATT AGAGGTAAAA TTACACATGC AAACCTCCAT
51 AGACCGGTGT AAAATCCCTT AAACATTTAC TTAAAATT TA AGGAGAGGGT
101 ATCAAGCACA TTAAATAGC TTAAGACACC TTGCCTAGCC ACACCCCCAC
151 GGGACTCAGC AGTGATAAAT ATTAAGCAAT AAACGAAAGT TTGACTAAGT
201 TATACCTCTT AGGGTTGGTA AATTCGTGC CAGCCACCGC GGTCATACGA
251 TTAACCCAAA CTAATTATCT TCGGCGTAAA ACGTGTCAAC TATAAATAAA
301 TAAATAGAAT TAAATCCAA CTTATATGTG AAAATTCATT GTTAGGACCT
351 AAACBCAATA ACGAAAGTAA TTCTAGTCAT TTATAATACC CGACAGCTAA
401 GACCCAAACT GGGATTAGAT ACCCCACTAT GCTTAGCCAT AAACCTAAAT
451 AATTAAATTT AGCRAAACT ATTTGCCMGA GAACTACTAG CCA

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ug221

1 GGAATTCGGA CCAACACGCA GGATTACATC TTCTTCAGTT CCTAGAGTCC
51 TCTAGAAGCC TATAGAACAA GACGGCAAGC TCTCTGGGCT TGCTCTGGGG
101 TTTTGTCTG TGTTTTATGT TGTCTTGTT GTTTTATTAA CATCAGTGTC
151 TCTTAAGATC CAGGACCCAG GGAGGTCTTT TCACATACAT ATACCAGGAC
201 TCTTGGGTAC TACTGTCAGT CTTGGGGAAG CAGGCTCCTC CATCGGCAAC
251 CAAATCCATG TAGCACTCCG AAHCCTTGGT TAGTCCTATG ACCTAAATAG
301 TTAAACTTCA GAAAATGGTT TCAACAGATT TCYSTCCGAG TGGTTTTGAA
351 ATTGCATTG TATTTGCTGT

ug222

1 GGAATTCGTT TTTGGTTTTG TTTTGTTTTG TTTTGTTTTG TTGTTTTGTT
51 TGAGAAAGGG TTTCTCTGGC TGCCTGGAA CTCACTCTGT AGACCAGGCT
101 GGCCTTGAAC TCAGAAATCC GCCTGCCTYT CCTCCCAAGT GCTGGAATTA
151 AGCACCACCA CTGCCTGGCC TCCTTTTTTC TTCTGAAGGG TTTTCCCCTC
201 CCCTTTCCCT CCATCACCGA CTGATCTCTA GCAGCAATTC TTCTTCCCGT
251 TTCTTCTGTT CCTCTTYGGA GAGGATCTCA CCCTTCTGAA GAAAGGAGGC
301 CTGCCTCTGC CTCCCAAGTG CTGGAAGAAT TCCACCAC

ug223

1 GGAATTCGAA GTCTGAAGGC ATTTTAGACA GGAGACTGAG AAGTACTGAA
51 GAATGGCCTA TACAGAGTTT AGAGCACTAG CSGTAGCGTA CAAGACTGCG
101 TTCRGTTCTC AGCACCAAGA AATAAAGGTG TCAGTSAGAG TAGGATTATC
151 AAGCTCTTGC TCCTGACCGA GCACTTGTCC CGACCAACAC CAGTGCACAA
201 CACGTAGCTG CTGAGCCTTG TGGCTGARCC CTTCKCKCC CCCATCCTCT
251 CCATCRCTGG ACTTGGTCTG CTTCTTGAAA GCCTGGACTT AAGTCCTACA
301 GATCCTTCTC TGTGTCAGCT TCTTTTTGT CAGAGTGTCC TCTGTGCTTC
351 TGGCTGCCTC CGTTCCCCTC TCAATCTCCT TTCTTTCATG TTTC

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ug224

1 GGAATTCCTA TAGACACATC ATGACAAGCA TGCCACAGG G TACTAAGCT
51 TTTCGGCTTA TAAAACTAG TGCCTATAAC TGTGTTGCCT GGTCTTAGC
101 AGTCTTCTAC ATTTGTTAAT TAAGTTAATG GAAGGGATTT GCACCCAGCT
151 CAACCTCCAA ATGAAATAAT TTTGTTTACA TATCTTAGCA GCTTCTAGCA
201 ATCGAGTCAT AGGAGTTGAT TACAGAGCAA GCGCTGTGTC TTCATCTCTG
251 TGCTTCTGCC CTTAGGTCCA AAAGAAGAGG ATGAGCGGCC TTWGGCTTCT
301 GCGCCTGADC AGCCAGCCCT TCWTMCAGAG GTGGTAACCA GGATGCAGTT
351 YCCACAGGTG GGCCATCCCT CTTCCAGCCT GCGAGTCACA GCCAGGKGCA
401 GATGGGAWAC AAGAAGTCAC AGACTGTGAG GTCAACAATA TG

ug225

1 GGAATTCCAA TGATTTTGCA ATTACAACAA TCAGTCTTCC AATTTTRRCC
51 GATGAAGGGA GGAACTTTG GAGGCAGGAR CTCTGGACCT TATGGTGGTG
101 GAGGCCAGTA CTTTCTAAAC CACGGAACCA AGGTGGCTAT ARCRGTTCCA
151 GCAGCAGCAG TAGCTATGGC AGTGCAGGAG TTCTAATTAC ATACAGCCAG
201 GTAAGTCCTC CTTTGTGTGT GTTTDCTAAA TGTTATAATT GAACCCAGTA
251 ACCCAAATGT AGCTGAGCAG TACAACATAG TTAACATTAT AATTCAGTA
301 AAATGGTGGA TGTTAAGTTA ATATGCAGTT CCGCCAAATT T

ug226

1 GGAATTCCTG AGCCAGAGCC AGAAGACCTC AACACTGTCT CAGAAGATGG
51 AGACGCCAGC TTAGAAGATC TGGACCCTGA AGCAGACGAA GCTCCACGAT
101 CCATCTTGGG GAAGCCAGAC TTGGATTCCC AAGATCTGGA TCCCATGTCT
151 TCGAGTTTCG ACCTCGATCC TGATCCTGAC GTGATTGGCC CGGTGCCACT
201 AGTTCTCGAC CCAAGCAATG ACACCCCCAG CCCTGCTGCT CCAGATAGTG
251 GATTCCTTC CTTCTGGGCC TCACTGCCAC CCCCAGAAAT CTTGGGCCAC
301 CAGTCCAGCG GTGCTTCCTG CCCCTGCCAG TCCACCTCGT CCGTTCTCTT
351 GTGCTGATTG TGGGCGAGCC TTCCGT

113/472

ug227

1 GGAATTCCCG GTCATAGGCT GGGAGGAAGC AACAGCGAAG GTCAGGAACA
51 GAGGCAAAC ACTTTCCACG AATCCCCTT TCATCTGCAC AGCAACAGTC
101 TACTAGCATG GAAGTCGAGG CTAGGTGCAT TCTGGTCCAT CTACAGTCCG
151 GTTACCTAGT TACTCCCTCT CCCC GCCACA CACACACACA CAGCTGAGAT
201 GCCGGCAGGT AACTGTTTCC TAAGACATAT GGGTGTCATT TGTGCACCTC
251 AGGCTTGTCC AGGAACACCC TATGTVGGGC TAGACACATG GGGCACTCAC
301 ACTAGCAAAG GGCCTGTGAT TT

ug228

1 GGAATTCGAA GGACTTGCCA CATTCTTCAC ACTTGTAGGG CTTCCCTCCT
51 AAATGAATTA TCTGATGATT TTGAAATACT TCTTTCCCA CAAAGATGTT
101 GCCACATTCT TTGCACGTAT AGCATTTTCC CCCTGGTGAG TAAGAGTTGA
151 GAAATGATGA AAACACTGCC AAAATCTGTA TATCTATACT GATAGTTTTT
201 TAAAAACAAC ATTTACTCCT ATTTGCATTG GTCTGTATTA ATGAGATGCT
251 ATATTCAATT TTCTGTACCT GTATTCAGTG AACTACAATT TAAAACACAG
301 GATAAGTGAA AGTCACGTAG ACTCCCTTGA ACAAAGAAGA CAATGGCMAC
351 ATAGAACAAG GGAGGGRATA GAATATTAAA TAAAATC

ug229

1 GGAATTCCCG GCACAATGGA AAAGGAGATA GAAAGCRCRC ACCTCTGGGG
51 AAGAAGCATA ACCTCTTAAA ACAGACTAAA TVGCAGGGCC ACHCTGTGAA
101 GAT

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ug230

1 GGAATTCCAA CTTGTATTTA AAATTCAGTG AGCATTGACT GTGTGCCTTC
51 TGTATACAGT TAAGACCAGT TTTGGTGTGG CTGCCATGAC ACCAGAGGGG
101 GTTGGTGGCA TTGGTGGGGT GGGTGCTTAG TAATGAGGTC AGAGCGACTG
151 ATAAGGCAAA AGTAAAAGAA GCAAACTAA GTATAGAGAA GGGGTAGGCA
201 TTCAAACCCC AGAGGACCTT GATTTAAGTC CCCATTTATA GAGAGTACCA
251 TCTTGAGAGA CTTGCAAAG GGCTTTGTGC TCGTTCAAA TGTTATTGTT
301 TCTCTGTAC ACTGGATGCC CTCAGCATCC CGTTAACTTG CCAATCATGT
351 CTCTCAGCTA TGCTCATCTC AGCCCGTGGA TAGATAGCCT ACCAGCTTTC
401 TTCTGTCTGG AACTTGCCTA CTGAGSTGGA CCAGTCATAC CATCCCAGTT
451 CCCACTGACT ACTACTTGCC TCTGCAGTCA CCCATGGTAG TACTTAGCAC
501 AGATCTATCT TTGTAATGTG TTTTTAA

ug231

1 GGCGCGGATT CTTTATCACT GATAAGTTGG TGGACATATT ATGTTTATCA
51 GTGATAAAGT GTCAAGCATG ACAAAGTTGC AGCCGAATAC AGTGATCCGT
101 GCGCCCTGGA CCTGTTGAAC GAGGTCGGCG TAGACGGTCT GACGACACGC
151 AAAGTGGCGG AACGGTTGGG GTTCAGCAGC CGGCCTTTAC TGGCACTTCA
201 GGAACAAGCG GGCGCTGCTC GACGCACTGG CCGAAGCCAT GCTGGCGGAG
251 AATCATACGC ATTCGTBCCG AGAGCCGACG ACGACTGGGC TCATTCTGA
301 TCGGGAATCC CGCAGCTTCA GGCAG

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ug232

1 GAATTCCTCG GCTCGAGCGG CCGCTTTTTT TTTTTTTTTT TTTTCAAAT
51 TAATATACAT TATTTTATTA CAAATTAAA AAAAAACAAA AAAATGCAAC
101 ATCCTAAAAA AAATTTTAC TGGTAATACA AATTCCTATG AAGTTTTTTT
151 TTTTGCTAGC ATAAGAAATT AAAGAAACCA TTAAATATTT AGAAACATTC
201 AACATCAAAA GCTTTAAATC TAACTGTAGT TGTAGCCCCT GAAAAAGCTA
251 CAAACTCTTC TAAAAAGTA TTTTCTCTAC AAAGAATCTC ATCAGCTATA
301 CAAAAATCTG TACAGTTTTT ATACTGAVGC TAATGTTGAG CTGCACTTGA
351 ATTCACATT CTTAGCAAAA TAATTGCCTG AGCAAATATA CTCCACACTT
401 TAGGACAGCC ACTTATTCTT CATCCTCCTC T

ug233

1 GGAATTCCTCG GCTCGAGCGC CGCTTTTTTT TTTKGGGGGG CTTACTCCAG
51 CGATGTCTAT TAGCAGAGAC ATGGGCCAGG GAAGGGTGAT GGATACAGCC
101 AGGGGTGGGA TATCAGCCTC AAAGTGCAGA GCTTTGCTCT GAATCTCAGC
151 AGGCAGCCAA AGGGACTGAG ACAAAGCTCT TCCTTTCAAG TTGGCATGGC
201 AATCAACTTG GAAATCAGGT TCCCCGGGCC TTCCTTCCTA ACAAAGGATC
251 CAGCCTCCTC CAACTGGGTC TCCACTCAGC CCCTGTAGAA AAGTBCTGAC
301 AGTATTAAGT TCTACTCTC CTAAGACCC CAGGAGGTCC TCACCGTGCA
351 TAGATGTGCC ATCTGTTCTT GAGAAACCAA AGCACTTTGT AGTCTTACAA
401 CCCATAATAC TTACAGTAT

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ug234

1 GGAATTCGCT TGACAACCTG CAGGCAGGCT CTGGGAGGCC GAGACATCGG
51 CGAAGAGAAC AGAGAGTCGG CGGGGACAGA TCTCAAGACC AGAGAATGGC
101 AGGTGAACAG AAACCCTCAA GTAACCTCTT GGAGCAGTTC ATTTTATTAG
151 CCAAAGGTAC CAGTGGCTCA GCCCTCACCA CTCTCATAAG CCAGGTGCTA
201 GAGGCTCCTG GAGTTTATGT TTTTGGAGAA CTGCTGGAGT TGGCCAATGT
251 TCAGGAGCTT GCAGAAGGAG CTAATGCGCG TATTTGCAGT HCTGAACCTG
301 TTTGCCTATG GTACATRCCC GGATTACATA GCCAACRAGG AGAGCCTGCC
351 AGAACTGAGT

ug235

1 GCGKTAGGCG AGCAGCGCCT GCCTGAAGCT GCGGGCATT CCGATCAGAA
51 ATGAGCGCCA GTCGTCGTCG GCTCTCGGCA CCGAATGCGT ATGATTCTCC
101 GCCAGCATGG CTTYGGCCAG TCGGTCGAGC AGCGCCCGCT TGTTCTGAA
151 GTGCCAGTAA AGCSCCGGCT GCTGAACCCC CAACCGTTCTG CCAGTTTGCG
201 TGTHGTCAGA CCGTCTACCC GACCTCGTTC AACAGGTCCA GGGCGYACGG
251 ATCACTGTAT TGGCTGCAAC TTTGTCTATG TTGACACTTT ATCACTGATA
301 AACATAATAT GTCCACCAAC TTATCAGTGA TAAAGAA

ug236

1 GCGGTAGGCG AGCAGCGCCT GCCTGAAGCT GCGGGCATT CCGATCAGAA
51 ATGAGCGCCA GTCGTCGTCG GCTCTCGGCA CCGAATGCGT ATGATTCTCC
101 GCCAGCATGG CTTGCGCCAG TCGGTCGAGC WCGCCCGCT TGTTCTGAA
151 GTGCCAGTAA AGCKCCGGCT GCTGAACCCC CAACCGTTCK CCAGTTTGCT
201 GTYGTACAGAC CGTCTCCGAC CTCGTTCAAC AGGTCCAGGK CGCACVGATC
251 ACTGTATTCG GCHGCAACTT TGTCATGCTT GACWCHTTAT CACTGATAAA
301 CATAATATGT CCACCAACTT ATCAGTGATA AAGA

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ug237

1 GGAATTCCCC GGCTCGAGCG GCCGCTTTTT TTTT TTTT TTTAATTAA
51 ATAAATACCC CGCTCCTCCC TCCACCCGCT TACGTTCTCC CTCTTCCCCG
101 AACATCCCAC CCATCCCTGG CTAGACCCTT ACCCCAGAAC TAAATAAAAT
151 GCCTGTTTTA CAGCAGACCA CACTCACTAC CAAATTCTGG GAAAACTATA
201 AATACTGTCA CTGTCTGGGC CTCTCTGCCT TCTGACTCTG CTCCGGAGGC
251 AGCCACATTC CCTCCCTCCC GTTGACTGGG CAAGGATGGC AGAGGCCTGT
301 AGGCACTGGC CTTBGAGAGT GCAAATTTAG CCTTGGGTTC TCCACCTCCT
351 GCTCAGGAGT AGGTCAGAAG GGCCCCAGAA ATTCCCTCAG ACTAAAATAA
401 ATAGCAAAAT AAATACCCT

ug238

1 GGAATTCGCA GGTCGCCGGC GAGCCGCGTC CGGAGCCCGG CGCCGAGCVG
51 GCCTGGGGAG GCGGAGGCCA CACCCCGCBC VCGCCAGGC BCTTCCCGCC
101 GGTGAATCAT CCCCAGCA GCSGCTCCCG CAGTCCGCTG C

ug239

1 GGCGGATTCT TTATCACTGA TAAGTTGGTG GACATATTAT GTTTATCAGT
51 GATAAAGTGT CAAGCATGAC AAAGTTGCVG CCGAATACVG TGATCCSMSC
101 GCCCTGGACC TGTTGAACGA GGTCGGCGTA GACGGTCTGA CGACACGCAA

ug240

1 GAATACTTTT ATTTAGATTT TATTCATAAA TTAAGTTGAG AGCVMTTATT
51 TGTAASGHVG CTCTATTTCC CTTGTCCTTT CGTACTGGGA GAAATCGTAA
101 ATAGATAGAA ACCGACCTGG ATTVMCMCGG TCTGAACTCA GATCACGTAG
151 GACTTTAAAM CGTTGAACAA ACGAACCATT AATAGCTTCT MCACCATTGG
201 GRTGTCCTGA TCCMACATCG AGGTCGTAAM MCCTAATTGT CGATATGAMC
251 TCTTAAATAG GATTA

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ug241

1 GGAATTCCGG AGTCTCCATG CTATGTCCCA GGTGATTCCT CCACAGTAAA
51 ACGGGGAGAC CTCTGGGTTG GAGAGTCAGC GCTGGTCACT CTTCATTAC
101 TTGCAGGGAG CCTCAAGGTT AACAGAGCTG GGCTTCTGTG AGCAGCATGG
151 CCTGGAATGG GGTTTGGCAT GGTCAGCGTA AGATGGTCGA GAAGGTGGAT
201 CTAAGGACCC TTCCTAGCAT GGGGCAGGAA AATAGAGGTG GCTCCAACTG
251 GGCCTTGAGG CCCTAGAGGG TTAAGTGCGB TCTCACAGGA ACCAAGGCCA
301 AGYCTGGGCC ACAGTTDAGA GACATTCCAC AAACCCTGAT CCAATGAWTC
351 AAGCTATAAG CC

ug242

1 GGAATTCCAC KACHAGGGGA CTTGTTGGTG GTCCCCTTCT ATCTGAATCT
51 CATACTCAGA CACGCTCCCA CTGCTCCCCC GATCTGAGTG CCCCTCTTCC
101 TGCAAGCGGC TCCGAAGGGC TTTGTTGGGG GTTGTCTCCA TCCGAAGATC
151 ACTGCTGACT GGAGGCTGCC GTACCTGAGG GCAGTACGGA GGGGAGATTT
201 CAACAGGATT GGTGAAGAAG CTGCCATCTT TCACCCATHC TGTTGAAATC
251 TCCCCTTCTA TCTGAATCTC AACTCAGAC ACGCTCCCAC TGCTCCCCCG
301 ATCTGAGTGC CCCTCTTCCT GCAAGCGGCT CCGAAGGGCT TTGTTGGGGG
351 TTGTCTCCAT CCGAGGATCA CTGCTGTCCG AACCTCCCCC GT

ug243

1 GGAATTCGTG TGCTTTGAGC TTTACTAAAG TTTCTTTAGT GAATGTGGCT
51 GCTCTTGAT TTGGAGCATA GATATTCAGA ATTGAGAGTT CCTCTTGAG
101 GATTTTACCT TTGATGAGAA TGAAGTGTCC CTCCTTGTCT TTTTGTATGA
151 CTTTGGGTTG GAAGTCAATC TTATCAGATA TTAGGATGGC TACTCCTGCT
201 TGTTTCTTCA TACCATTTKC TTGGAAAATT GTTTTCCAGC CTTTCATTCT
251 GAGGTAGTGT CTATCTTTTT CACTGAGATG AGTTYCTGTA AGCAGCAAAA
301 TGTTGGGTCT TGTTTGTGTA GCCAGTTTGT TAGTCTATGT CTTTTTATTG
351 GCGAGTTGAG ACCATTGATG TTAAGAGATA TA

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ug244

1 GGAATCCCC TCCTTGA CTTCCTTTCCC AGCTGGTTTC GAGGTCTCAG
51 CAGACTTGGC ATTGCCACA GGCTTCTGGG GCTCAGCAGG TTGKCGTTG
101 GTTACAGGTT TCAGGGACCC TGAAGGCTGT KCGTTGGCTA TGGGTTTCAG
151 GGTCTCKGCA GGCTTGGTGT TGCCACAGG CTTCAGGGTC TCGGTAGGCT
201 TBGCATTACC TATAGGTTTC BGGGTCTCAG CAGGCTTKGC ATTGCCTACG
251 GTTTCAGG

ug245

1 GGAATTCATT GAGATCGTTC AGGAACTAT GCATTTCCAA GCCATTATAT
51 AGTCTGGGCA AGATAAGTTC TTATTTTCATT TGTCTAATAC TCATGTTCAA
101 GGGAGGCCCT GTTTCAGTCT GGGCGCAGGG CTCGCAGATT ACACCTTACA
151 GCCTCTCATG TTCAGATAAC TGGCAACAAA GCAATAAAAA GCCGTCCAAC
201 TTGTCAGTGC GTAGCAGCAA AGCCCTTCAT GTGGGCAGGA CAAAGGGCTG
251 GCTCTCATTGATGATTAGC TCATTCAGGT CACATCTAGG TCACTTCCAC
301 CTTTGTCTGG ATTCCAAGGT TAGCCCTCAT CTAGGTGAGG GGATGGGGCC
351 CCTGTGAAGT CCTCAGAGCT CACCCTGGAG AGTTAAGATG GGCACAATGA
401 GAAACAGGAG AGCAGGGTAT GTTCCTCACC AGAGCCAGTG TTGGCACACT
451 GGCTCAATCT CAAGAGGTTC CCCAAATGAG TCAGATTTAT AGCTGACATC
501 AAGGACAGCG TCAGAGACTC TAGTCTGTGA AATCATCACT CTCAATTGAG
551 GGAGACCAGA ACCTAGGGTA CCACCCAGGG AATGTCAATT CCGATAGACA
601 CAGGRTCGGT AGCCAGTGTG TG TAGTTAGG CTTCGGACTG TTG

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ug246

1 GGAATTCTCG AGCGGCCGCT TTGTTTGTTCCTTGATA TTAAGTAGTG
51 ACAGTTTCT GGATGCAAAA CCACAGACGC ATCGCCTTCA GTGCAACAGT
101 CCTGCGGGAT GATCGGCCTT CTCCAGGGGG ATGTTGGCTT CCAGGCACAT
151 TTTCACAAAG TCCTGGATAA CACTGGCTTT CTCTGTTTGC GCAGGACTGT
201 TGCCTGAAG CGATGCGTCT GTGGTTTTGC ATCCAGAAAA CTGTCCTAC
251 TTAATATCAA GGGAAAACCA ACCAACCAAC CAAAAACCCG ACTGGAAATT
301 AAGCTGAAGA ACCTTATTCA GAGACAAAAT GGAACGATTT GTTGTAACAG
351 CACCACCTGC TCGAAATCGT TCTAAGACTG CTTTGTACGT AAMCCCTCTG
401 GATCGAGTCA CTGAATTTGG AGGT

ug247

1 GGAATTCCAG TGGGATTCTT CAGCTCCATG ATGCAATGGT TATCTTTTGG
51 GTAAAGAATA TTCAAGTCCT GACATCATAG TAGTAATGGA TATTACTCAT
101 GGTATGCTCT CAAGCCCAGC ATGGCACATT CTGTACCCTC TTTATCACTG
151 AAGTAAGCAA TGGGTTTAAA AATAACGTTG CTTACACACC CAGAGTACCA
201 ATGATTCATT AACAACTGAA CAAATACTGC TCTGGACTCC AAAATTATTA
251 CAGAATTTTA TATACAGGAT TTTGAGGCAT AGGGTATTTT CCACCCCTAG
301 TAGAAGTAT

ug248

1 GGAATTCGGT TTTTAAGGGA ATTAAGTCTA TGTTGATAGT ACAGGGGGAA
51 GAGGATATAA AAGTGAATTT ATAGTTTCC CAGACCACAA GGCATTGTTG
101 TGCCTTGGTG GCCACCTAGG TCAAGACCAG GATCTCTCTC CTGGGGAGCC
151 AACAGGAGCC TTCCAAAATT ATCAGGGAAA GAGGTTTCT GTCTCAATC
201 CAGCTTGGGA GAGATTTTGT TACTGACACA TGATCCTTCC CCCACCCAGT
251 AATGAAGTGT TCTGTGTGCT AACAAATAG GCTTAAAAA AAAAAAATC
301 BSGCCGCBAA TTTCCACCAC ACTGG

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ug249

1 GGAATTCATT GAACCCCATG CAATTATAGT GGGTACTTCA ATACCCCTCT
51 CTCACCAATG GATAGGTCAT TATAACAGAA ACTAAAGAGA AAAGCAGTGA
101 AACTAATAGA TGTTATAAAC CGAACAAATC TGATATCAAT GGAATTTTTC
151 ATCGCAAAAC AAAAGAATAT GCCTTCTTCT CGGCACCTCT CAGAACCTTC
201 TCCAAAACTG ATCATATAAG TCAGCAGGAA GTACCAACAG GAACACCAGG
251 AGTTCTCAGC TGTGCATATC TCAGGGAAGT AAAGATCAGT GAAGATTCTGA
301 AACCATTGCA CAGCTAGCTG TACCAGCAAG ACTGCACAGC TAGCTATACC
351 AGCMAGACTA GCTCTGTCCC CACCACTCCA TGAATCTTA

ug250

1 GGAATTCAA A GAGGCAAACA TAGAATCAA CTAAGCAGTG GGTTCCTTGC
51 AAACAGTTGC CTTTCATATTA CCTCAGCAGT TAAACGTTTG TGTGGAGTAC
101 TAAGGTGGTG GTGGAGTGTG CTTTGTTTAG TTCTTTTACT GGAGTGGGCA
151 CCCCACTTTG TCTCTCTCCT AAAGCCCTAC TCACTTTGTA TCACTGTAGC
201 CAGACCACAA AGGCTGTATG TTGCAATGTA TCAAGTGACA GTTTTAGTTA
251 AACATAAATA GGCCCATTTGA ACCCTGCCAA ACCTGGTCAT ATAGATCAAG
301 GTCAAGGTAA AATACCAGGT TTCTGTAGTA GGGGG

ug251

1 GGAATTCCCC GGCTAGAGCG GCCGCTCGAG CCGGGTCGAG CGGCCGCTTT
51 TTTTTTTTTT TTTTTCACGG GAACAGACTT TATTAGTTCA CTTGGGTCTT
101 CTCTGGTACG GCATTTGAAG GGTTCTCTGG CACCCCCTCA TTTTTTCTT
151 TTTTGGCAGC AGCTGCAGCA GCTTTTAAGG CCCTTTTTTG CTTCTTCAGC
201 TTTTGCACCT CCTGGTAAAC CCGAATGCAC AGAGCCTTCT TGGCCAGGAA
251 GCVGCGGTGA ACCTTTTGGT AAATGTCAGA GGGGGGTAAG GTATATTCCA
301 CCCCTAGCTC CTTGCATGTC TTTTGAAGA CATCATAGTT GGTCTGACGG
351 AGGATTTTGA GCAACTTTT

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ug252

1 GGAATTCATT TTATAATTAT GAATCATGAA TATCTGTATT TGCCGATGGT
51 CTCAGGTGAC CTTGTGAAA GGGTCGTCTC ACCCCCAAAG TTCTGTCCAC
101 AGGTTGAAAA CCACTGTGTT GGAGGGTGCT GACTGTAGGG CAACAACCTG
151 AGGACAAAAA AAAGCCTTGA ACATGTGTTG TTGCTCTGGG AGCTGTGTGC
201 TAGCTCATAT CTTCGCCAGT CCTCCCCTA AGCTTGGCTG GTTCGGGGTA
251 CCCCTATTT ATGGGACYCA GGGTAGGGGT GAGGCAGTGA TGGKGCCAGT
301 CTGCTGCACT GCCCAAGCAG TGACCGCTCC CTTGATCTGT GCTGACTGTT
351 AAGAGTGAAG KKCTTCAGAA AGTAGTACTG CCACAGCCAC CAGA

ug253

1 GGAATTCCGG CTCGAGCGGC CGCTTTTTTT TTTTTTTTTT TTAGTTGCAA
51 GCAGATCACA AATCCTCTTA GATGTAAGGA AAGTGGGTGT TCTGGAGAGG
101 ACTCAGATCC TGAAAATGAG GAAGTGAGAA TGGCTTTTAG CCATTTTGG
151 AAAGTACAGT CTGTAATAGT TTACCTTCTG GCCCAGAGAA TTCACATTCT
201 TCTGCCTGAA CAATGCAGTT AATTTTTTTC TTCTACAAAC CCCTATGGTA
251 TCAGCTGGAT GTCAGGGTTT TACCATTAA ACCTGATCCA GTCACAGAAA
301 TGGTTGTTTA TTGCAGATGA TACTCCTCAT ATGAAAGAAA ACCTATGAAA
351 CAAAACAAGT TAGCAGCTGC CCATATATTC TACATATATT GAGAGAAGTA
401 TAAGACAGTG TATTAACAT GAGAAAAATG GAAGGCACAC AGCAGACACT
451 GTTCTATACA GTTCAATTG AAGTCCAGGG TATATGTTGA CAGCTGGGTC
501 AACTCCTACT CTCTGCAGTA TYCTCCAACA AWCCCC

ug254

1 GGAATTCCAA GAATGTACGC CAGAGGAACG CCACCTGAGT GGTGGGGCAG
51 GCGGGGGAGG GGAGGTGCCC AGGGTGCCTG ACCCCAGGCC AGCTCTACCT
101 CCACTCCAGT ATCCCATCCT GTCCCGATTT GAACCTACCC AACCCAACCT
151 ATCCCAACCC AAGTGAAGAC AGAGCCTTAC CTTACAGAAA ACCCACCTGG
201 AAGAAGCAAR CCACTTCAGC CCCTGTTTCT AATTAAACT AAAT

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ug255

1 GGAATTCGTG AAGGTATGTG ACAACGTTTA CCTGACTAAA GCAGCTATCA
51 GCTTACAAGT TCCCTGCTTC CCCAGTCAAT TTGGTGACTT TCATTCTTAG
101 TGCTTCGACC CTTTTCCTAC AGCAAGCACA CAACACTGCA GTTCTTTACC
151 CTGCAATCCT ATGTATTTGC TTCAATTTTT GTTCTCCACA TCCTCAACTA
201 TGCATTATTG GGACAGCAAA AAAAAAAAAAG AAAAAGATTC TTTCTTCTAA
251 GGGAGAAGTA AGTCACTTAG CTTCACTAT AGACCACCTG GGCACAGTGC
301 ACAAGAAACG CCGAGCTCAT CTTTTTCTG T

ug256

1 GGAATTCGTG AAGAGTACTG CTTGTCCTT TGGCGTGTGC ATCGGTCCTG
51 CTCTACCCCG CAGCCTGCGC TCTACTGCCT GCTCCAGTCC ACTCCTGACC
101 GACAGCATCA TGGCTACGAG AGGCACTGTG ACTGACTTCC CTGGATTGA
151 TGGCAGGGCT GATGCAGAAG TCCTTCGGAA GGCCATGAAA GGCTTGGGTA
201 CCGATGAGGA CAGCATCCTG AACCTGTTGA CATCCCGAAG CAATGCTCAG
251 CBCCAGGAAC TTGCTCAGGA GTTAAAGAAC TCTGTTTTGG CAGGGACCTT
301 GTGGATGA

ug257

1 GAATTCCCGG CTCGAGCGGC CGCTTTTTTT TTTTTTTTAA CAAACCCTTG
51 TGTCGAGGGC TGACTTTCAG TAGATCGCAG CGAGGGAGCT GCTCTGCTAC
101 GTACGAAACC CCGACCCAGA AGCAGGTCGT CTACGAATGG GTTAGCGCCA
151 GGTTCACAC GAACGTGCGT TCAACGTGAC AGGCGAGAGG GCBGCCTCTT
201 CATAATTTTC AATCTGTTCC ACTTGCTTTT CCCATCTGTC TACCATGTAC
251 TTGTACATGT AGTCATGGCT TAGGTGTGGC TTGTGACAGG TGGGCCTCTG
301 GGTTTCCCAT GCTCAAGGCA AGGGAACTG TCTTACTTAA CAGTGTGTGT
351 CTAAAAAAT CTGGCTTTTT TGAGAGTGCA GTATTAAAA AACAAACTG
401 TACTATCAAT TTCTATAAAG TTGTTCGAGA ATTTATATGG GTCCCAAATG
451 TCCTTTCTGA CTGAAGTCTG CAGTAAADCG AATTCCACCA C

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ug258

1 GAATTCCGGC TCGAGCGGCC GCTTTTTTTT TTTTTTTTTT GATTAGCTCT
51 GGATAATTTT TTATGGGGAG GGGAAAAAGG CATTGATAT CCTGCCTTTC
101 CTACAGCACT CAGATTAAAA CACAGGCTTA AATTAATTCT GATTGCTTCC
151 TTTTCCTTGT TCCTTCCTGC AGAGGCTGAT GGGACAGTGT CCAGGGCTGG
201 AGAGCCACGT GTTCTGTAGA TGATAAATAA CTATGAACAT TTGGTGCTGA
251 ATTTTTTACA CTTGTCTCTT GTGGTGCTAT TGTCCGGAGA CCCTTAGGTG
301 GSCCTAGGGT GCCTGCCATG CCTCATTCCC TCGAATTCCA CCACACTGGC
351 GGCCGCTCGA GCATGCATCT AGAGGGCCCA ATTCGCCCTA TAGTGAGTCG
401 TATTACAATT CACTGGCCGT CGTTTTACAA CGTCGTGACT GGGAACACCC
451 TGGCGTTACC CAACT

ug259

1 GAATTCCCGG CTCGAGCGAC CGCTTTTTTT TTTTTTTTTT TTTTTTATGA
51 AATGAGTTCA TATTCAAGTG TGA CTATGTA GTCAAGTACA TAGTTGAACA
101 TGAGTAGCCT CATATCATAA AAGTAGTCTT CTATCATTCA TATACAGTAT
151 ATATCATTTT TATACACTCC TTTGCTCTAT ACTGTGCCTT GGAGATCTTA
201 AGTCATGTTA TCATCTTAAA GTGTGTCAGG GTAGTTACCT ACCTCAGGCA
251 TTCAGGTTAT TTCTAGTTTT CAGCACTTWC AAATACCTTT AGTKAGTATC
301 TTTGTGTGTA CTTTTTCATA TGCTGTGTAA CAGTTTCTTA AGCAGGACTG
351 CAAAAATGTA AATTCKTGCT TTTCAGCTTA GGKCATCTAA CAGATACACT
401 TTCCTTCAAA AGC

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ug260

1 GAATTCCTCA GACCTGGAGC AGGCGCGGCC TCAGACTTCT GGAGAAGAAG
51 AGCTGCAGCT GCAGCTGGCC TTGGCCATGA GTCGCGAAGA GGCTGAAAGG
101 CCAGTCCCCC CAGCCTCCCA CAGGGATGAG GACCTGCAGC TGCAGCTGGC
151 TCTGAGCCTG AGCCGGCAAG AGCATGAGAA GGGGGTGAGA TCCTGGAAGG
201 GAGATGACTC TCCAGTGGCC AACGGCGCAG AACCTGCTGG CCAACGTCGT
251 CAACGGGACA GGGAGCCTGA GAGAGAAGAG AGAAAGGAGG AGGAGAAGCT
301 GAAAACTAGT CAGTCCTCCA TCCTGGACTT GCTGACATCT TCGCACCTDC
351 CCCGGCCCTG CCTTCCACCA CTGCTCTGCT GACCCATGGG ACATCCCAGG
401 TCTCAGGCCG AACACAGAGC CAAGTTVGCT CCTCTT

ug261

1 GAATTCTTTT TTTTTTTTTT TTTTTTTTG AGGTGCTGAG TCACACTGTT
51 AACTGCTTTA TTGAGATTCA GGGAGATCCT TCCCCAAGA GACACCACAG
101 TGTGAAAGGG ACGCTGCCTC CCGCCCGGTC AGTCCATCTG TCCATGCCTT
151 CATTTGATCA AATGTGCACC CACTATCCAC TGGAAACAGC CTCCAACCTG
201 TCCCCATTTT TTTTCCCCTT AGTTCTGAAA AATAATAATA ATAATGACAA
251 CAAAGAAAAG AAAACCAAGA TGCAGTAGTT CTGAGAGATG ATTGTACAGA
301 CCCAAAGTGG GACGCATGAG AATAGAGGGA ACACTTGAGA GTAAACCTAA
351 GGCCAAGGAG AGGGTATGCA TGGCTCAGAA AACACGTA CTGGGAAGAGC
401 CTGCTTAATC ATGTGCATGT TGGGTGCACA TGCCTCTGCT GAAAGAAGAC
451 AGGACATCAG CTAGGCAGAC AACTGTATCC CATA

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ug262

1 GAATTCCACA CCTTGTAAGG ATGGTATAAC CTCTGCCTTA AACAAGTTCA
51 AGAAAAGGAG GGGCAAAAAG AGCGCTTGTA TGCAGCTTTA ATTATCTGGT
101 CCCCTCACC CCCTGCCTTT TGCTGTGCTC TTAGCCCCAG GCCAAAGGCT
151 AAGACTGGAA CTAAATTTGC ATAAC TCACC TCCCACATAG GTGTCCTTGT
201 CCACTCCTCT TAGCCTTCGT GTATCCGGAG CAGATTTTAT AGCTGTGCAG
251 TCTTACTCCA TTGCTACCTA AGGGAAAATC TGTTAGGTTA AAAAATTATT
301 TCTGTCCCAT GGCTGGATTT TCAAAACCAA CTGTGGAAAT AGGCTAATGA
351 GACTGGTAAA GCCAACCAGA ACACCCACAC GCTATTCCCA AATCAAATGC
401 GTTGTAATT GGGCGAATCT TGTATTTGTA GCTGTCTGGT AATGTGAGGT
451 CAGATTTTWA GCATTCTATC ATCATGAAAT TGCACTGTCA CTTTCCATAG
501 CAGCCGAGAG AATGATAGTG AGGTTAAGGA GCCATAACCG TAGAAAATGA
551 AGGTGCTCMA GGGCATGAAT GTTCTGA

ug263

1 GAATTCGCAG ATGGGCCAAG AGCTTCAAGG AGAAATAGTT GTAATAATTG
51 CAGATCAGTA TGGAAATCAG ATTTTCATCAT TTTCACCTGA TTCCTTATCT
101 ACTTTGTCGA TTA CTGGAGA TGGCCTTGAC AGCTCAA ACTTGAAAATCAC
151 CTTGGAGGCC AACTCACAGA GCGTAAGTGT GCAAGGCATC AGGTTTACTC
201 CAGGGCCTCC TGGACCCAAG GATCTGTGTT TTA CTGGCG AGAGTTTCT
251 GACTTTCTGC GCGTGCAACT GGTTTCTGGA CCTCCAACCA AGCTGCTGCT
301 TATGGACTGG CCAGAGCTGA AAGAGTCCAT TCCTGTGATT AATGGAAGAC
351 AATTAGAGAA CCCTCTCATT GTTCAACTTT GTGATCAGTG GGATAATCCT
401 GCTTTAGTCC CAAACGT TAA AATATGTCTC ATAAAAGCAA GCAGCTTAAG
451 GCTACTACHT TCAAACCAGC AGCATAAAAC SGATTCCACC AC

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ug264

1 GAATTCGAAC TCTACAGGAC AACCCATTTC CTGAGAGGGT AGGCCAGATG
51 GCTCTGGGTG ACTGAGAATG TCATTCTTG AATGGGGGAC AGAACGGAGA
101 GGGGGTGGGA TTTGTGGACA CATTACATA TAAGCATATG CACCCCAGCA
151 ACAAGGCTCC TAATAGCCTC TCCAGGAAGG AGACACCGAC CCCTAGATTC
201 CTGGAGTGTG TAAACAGCCC ACCCCTAGAG CCCTCATCCA GTCCATTCT
251 CCAGCTCGCA AGACCCGGCT TCCAACGTGA AGTCACCAGG GCGTAGAAAG
301 TCCCTCCTGA TATTCACATG ACAGATTCCT TTTCGAACGT GGCCTGGAG
351 TCCCCGGTGG GTCCCTGGTA CTGTTTCAGG AGGGGATTCC CCTCCTCTGT
401 GGCGAGGGGC AGTGGATTCA GAGACACCTC GTTCTTCACC TGGATCAATT
451 CGGGCTCTGA GCTCGGCATC TTGGTTCGAT CCACGTAACCT CTGAAGCAGT
501 CCAGCCCCAA AAGCATCACC TTCCACGTTG AGGACAGTAC AGGACCTGTC
551 CACTAGCCAG TCCACGCCAA GATCAAGGAG ATGTCCTTCA CAGGGCAGGC
601 TGAATTSTTT C

ug265

1 GAATTCCTCC AGTCGGTTAG CCGGAAAAAC GGGTGCTTCT TGACATCCTC
51 TGCATCCTTC TCACCAGCTC CCAGGCGCCG CTCAGGATTT CTCCTTAGCA
101 GCCTTCTCAT TATGGAAATG GCTTCTGTAG ATAAGAACCT TGGATACCTT
151 ACTTCGTCAT TTACAATACT GTCAAAAACC TCTTCTTCAT CATCACCAGG
201 AAAGGGAGAC TCGCCGACGA GCATCTCATA TATGAGTACA CCAAGGCCCC
251 ACCAATCTAC AGCCCTTGTG TACGATGTTT CTGTTAGGAC TTCTGGGGGC
301 AAGAACTCA GGGAGTACCA CAAAATGTGC TTGTCCTATC TCCATACCCC
351 ATTCCTTCTT TGCAAAGACC AAAGGTCAGG CAATTTTCAC AAAGCCTTCT
401 GTATCTAGCA ACAAGTTTAT CCAACTTCAA ATCTCTATAA ACAATTTTGT
451 GTTCATGTAA GTATTGCAAC CCAAGAACTA CACA

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ug266

1 GAATTCAACC CGGCTCGAGC GCCGCTTTTT TTTTTTTTTT CTAAGGACCT
51 TAGAAAAATA AAAAAAAAAAT TCTGAGTGCC ATCTTTATCA TCTCTTCATG
101 TGTGTGTATG AGTGTGTGTG AGTGTGTGTA TGTGTGTGTA GTGTGTGTAT
151 TGCATGTGTG TGTGTGTGTG GTATGTGTGT TGTATTGTAT ATATACCAGA
201 CCATGAGGTA ATAGGAGAAT AACTATTCT CGCCAAGATT TTTATCTTGT
251 CTAATCAAGT CATGTTTCTG GCTAGAACAC CTTTCTTGTA ATCATTTTAA
301 ATGTAGTCAT TTAAATGAAT AATCCAAACA GAAGTCCTAT TAGATCCATG
351 TTTCTGTAA ATGATTGCTA AGCCCTAACC TTTCATTTC CTTCAGGAAA
401 SCATCAAAAG CATGGTTATC ATCACTCTA GAAGCCCGGA TTATCGTTTT
451 AAAGTCATCA

ug267

1 GAATTCCTGG TAAGGGCAAG TCATACATGG AACTCGGTTC TTCACGGCAT
51 GCTTAGAAAC ACTGCGTTGT GGAGCTTGTT TCGTGTTKA AGGAATTCTA
101 ACGCACTAAC ACATAATGAC TCTAGCCYTA KGATGCACAG GCAAAAAGGA
151 GGCCTAAGGA CCACTTACA CACTGCAATA AAAGCTTKCT CCACTTGTTT
201 TCCAGGAATC GCC

ug268

1 GCGCGGATTC TTTATCACTG ATAAGTTGGT GGACATATTA TGTTTATCAG
51 TGATAAAGTG TCAAGCATGA CAAAGTTGCA GCCGAATACA GTGATCCGTG
101 CYGCCCTGGA CCTGTTGAAC GAGGTCGGCG TAGACGGTCT GACGACHCGC
151 AAAGTGGCGG AACGGTTGGG GGTTCAAGCHG CCGGCGCTTT ACTGGCACTT
201 CWGGTAC

129/472

ug269

1 GAATTCGTCA AGTTGGTCTT GAACTCCTGA GTTCAAACAA CCCTGCTGTG
51 GAATCCACGG TAGCTAGACC TACAGATGGC ATCACCAAGG TCAGCTTGAA
101 CACACAGTTA AAAATCATT ACCCCAAACT GACCATAATG TATCAAAGAT
151 GGGTAGGAAT TTAATAGCCT GTCTTTATGT TTAAAAGGTC AACCAAGTAA
201 CAATAATCAA GATATCTGAA GAAGTCTGCC AAGAGAGCTG GTGCTTCCTG
251 TAAGCTCACA GGAAGACGAG GAGCTTCAAC CCAAA

ug270

1 GAATTCGTTA TTTCTTAAAA TAAAAAGAAC ATCTAAGGAC TGAGTCCTAT
51 ATGCACTTTA GAGCATTTCT ACAGCATGCG ATTCTAAGAG TAACCCCACC
101 CAATATGGCA AACAATCAAA TTGTTTAAAA TTTAACTTAG AAAGTCTGAG
151 ATCATTATTT TCAAACATT GATTTGTACA TTGTTTCATA CACAAATAAC
201 CAACTGACTA TCCAAGCACA GGACAGGGCA CCTCTCTGGA GAAAAAAAT
251 CTCTGACAGC AGGGGCAGGA CGGCTAGTGT CACATGACTA CAAACGTCCC
301 TCCAAC TTCA CAGGAAACCC AAGGAAAGAA CAGAAAGTGG ACAGTGAGGG
351 GACAGGAGGG ACAGGAGGGA GGGAAVCAG CTYGGGAGTA AGTCMSCTGC
401 CTGAGCAAGG GAAGGAAGGA CTCTGACCAA GCATTCGTGG SCMATCCTAA
451 CATGTGC

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ug271

1 GAATTCGTCC TCTCTTGGAG GTCTGCTCCT TTTTGAAGAG GAAACGGGTG
51 AGAGGGTGTT CAATAATGGA GAAAAGAGGA TAGGTGAAGT GGGGGGCATG
101 GGGCATAGCT AGGAAGACTG TAGGGAGGAA AAACAATGCT CAGGATATAT
151 TGTATGAGAG AGAACCGAGG CAGTGGTGGA GGTCAGGGTA GTACAAATTA
201 CGGAAAGAGC CAGCGACGTG GTGGTCATCA GAATAACTAC AAGCCATACT
251 GAGAGGCAGC AGGAGCGCCC GAGTGACGAC CGCACACGCT TTGTTTGGAC
301 GCGGGAATTC CACCACACTG GCGGCCGCTC GAGCATGCAT CTAGAGGGCC
351 CAATTCGCCC TATAGTGAGT CGTATTACAA TTCACTGVCC GWC GTTTTAC
401 AACGTCGTGA CTGGGAAA

ug272

1 GAATTCCTTA TTTTCAGATG ACAGTTTTCC TCCTTTTGA TCACTGCTAC
51 TGCGGTGTTT TTTAGTAGGC AAAGTAAGTG AATTAAAGAT ACGATTCTTT
101 ACAAGTTTGC TGGAGCCAAA AAAGGGAAAT GAATTTTAT CTTTTATGGG
151 TCCAGGTCGG TCATAAAATG CTGGCTCAGC ATCTTCATTG ATGTCAAGGA
201 AAAATGTGCT GGTGGAGGTG CTGCCGAAGC GGTCGTCCTC CAGCATGAAC
251 ATGCTTGATG GTGCAGACTC ACTCTCACTG TTATGTCTAG AGCTGGTCGA
301 CTCAGAGTTC AAGCTGAGGG TGCTTGGGAC AGATGAGAGC TCATTGCAGA
351 GCTGCTCCAC ATCATCTGGA ACCACTGGCC ATAGAHCHTH CACTGTSCTT
401 ACAGAATCCC AGCTGTGACA TTTCAAATA TCACAGCCTT ACCTTGTTT

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ug273

1 GAATTCCACT ACTCTGCCAA TTA AAAAAGA TTTGTTTTTG CAAAAGTTAT
51 GTTTGGAGAA AAATAAAAAA GCTTATGGTC CTTGTATTAA GCAAATAAG
101 GTAGGCTCAG AAAGATGGGT GCTGTTTTCT CAGATATATG AAATCCACAC
151 TTAATAGTAT AAGATTTTAA GACGCAGAAG GTACTATTCA TTTAGAAAAG
201 GGAAAGTAAC CTGTGGGGGC CAGTACAGAG GACGAAATGA GGATGAACAA
251 GCTTGAATTC CGAAATAAAG CTGTGTGTGA ATGTCACAAA GGTTCTATCA
301 TACTGACCAA TGAGTGTATG CTAATCAAAG TAAGATTCGT TAAAATGGTT
351 TGAGAAATCA TTGTTGAAAT GTTAATCAAT CTCATCTGAA GCTCCGTCTA
401 GATTTTTATT TTTTATAGAA CTTTATAAA CTCTCCACC TCAAGTYCCA
451 AATTGGAAAG ATTTACTCCT CTTTCATAA GTTYCCCAAG ATGAGATAAG
501 AGCYATRCAA WGGTTTGTTT GGGAAATTGA GGCATGGACA TCACTACATG
551 GGCTT

ug274

1 GAATTCGCGC AGAGGAACTC TGGTATCGAT GGTACAAGAA GAGACCCCAT
51 GATCATCARA GACAGACARA GGCCAGCTGG TTCCAGACTG GCTTACAGGK
101 AAAATCCAGC TGCTGCTTGG GCCCCTGATG GTCGACCCAG TAGAGGGATG
151 GATTCAGGGT AWCAGCCTTC CC

ug275

1 GAATTCTTGA AATTAAAGA AAAAATTTAT TGAAGATCTG AAAAACAAC
51 CCTACAAGAT TGA CTTTCC ATAAACTGC AGCTACACGA TGCATTGCGT
101 CTATCATGTT AAAACGTGCA TTAGACACAA ATACAAAACC CATGAAAACA
151 AGCCACCATT CTTTAACAGT TGAGCAAAGA TAAGATGCCT AAGGAATGAC
201 ATGGATGACT TGCAAAGGAT GGGCTCTTTA AGCACCATTA WAAAAAAAAA
251 WAAGAGCACA GATGGATGAG TGTTCAGTTA TATACACTGA AGTGAACCTT
301 TGGCACTAGG AATCAGAGCA WTTGTCATAA GAAGCATTWA ACACATATTA
351 TAAAA

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ug276

1 GAATTCAAAA ACCTTTAATG AGTAAAAGAC AGTGTAGGGT TTGTGCCCAT
51 TGTCCATGTG TTGCTCCTAT TGTCACCCCT CCTATCAGAA GGTATTTTTG
101 ATGCGGGCVG CCACCAGGAC TAGGATTTC CCAATCTTCC TCTGCCAGTT
151 GGTGATATCC TTGGACACAG CACACCACAG CTCTCCATGT CGGGGCTCTG
201 CATTCTCACA GCGTTTCCTC ACCTCCTCCT GTTGCTCCTC AGTTCCATGC
251 TGCAGTTCAA ATTTGTAGAA GAAGGCCAG GCATCCCCC AGATCTGAGT
301 CAATCTTCAC AGTGCSATGG AACCCTCCC GAVCCYTGGT GATCTTTCTT
351 TCACTCCAGA ACAACTTAGC CACAGCTAAA AGCACATGVG GTCATGTTCA
401 CACTTCTTCA GGGCATCCAC ACTCT

ug277

1 GAATTCATGG CGCATCCCGC ACCCCTGGCG CCCGGCGCCG CGGCCGCGTA
51 CAGCAGCGCC CCGGGGGAGG CGCCCCGTC CGCCGCCGCC GCCGCCGCCG
101 CCGCCGCTGC TGCCGCCGCC GCCGCGGCTG CCCGCGTCGT CGTCGGGAGG
151 GCCCGGGCCG GCGGGGCCCS CVGKTGCCGA GGCCGCCAAG CAAGTGCAGT
201 CCCTGCTCGG CGGCGGCACA GAGCTCGTCG GGGGCCCCCG GCGCTGCCCT
251 A

ug278

1 GAATTCGTTT CTGAAAAATA GCTACAGTGT ACTTACATAT AATACATAAA
51 TCTTTAAGAA AAAAAAAAAA AAAGGGGAGA TTTAAAAGTA AAGGCCTGAA
101 TGTCTGTTCA ACTAACTAAA TTTATAGAAA GCTTCACAGT ACAAAGCAAG
151 CAACTGACTT AAGACTTGCA CCTAAGGCTG GAGAGATTGC TCAGAGGTAA
201 AGAACACTGA CTGCTCTTCT GCAGGTCCCA AGTTCAATTC CCAGACAACC
251 ACATAGGTGG CTCACAACCA TCTGTAAACA AGACCTGATG CCCTCTTCTG
301 GTGAACTGAA GAAGGCTACA

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ug279

1 GAATTCCGGG GCACCCTCTG CTGAACAGTA GGGGACGGGC CAGGTGGCAG
51 AGTGGCCAGA TTGGGGGGTG AGGCCGTGGA GGAAGGGGTC CCAGCTCCAG
101 CCCCCGGCCC AGGACTCACC AGGCTTTACC AACTCTGAC ACTGCTCACA
151 CCTGGGAGTT GCTTCTGAGA AGATCTTCTC TTTCATCCAG CCCATCGTGT
201 ATTCTTTTCT GCAGGAGGTG TTGACACAGT GTGATGTGTA GAAGGTGCCG
251 TGGGCCTCCA CCAGGTCCTG GGGCTCCAGC CCCGCCACTC GTTCCAGCGT
301 GTCTATGTTT TCGTGTAGC AGCGCAGCAG CTAGCCCCTT HTCCTTCAGC
351 AGGCCGGATG AAGTAATTGG CAGA

ug280

1 GAATTCACTT AACTGTCTA TTCCTGAAC GACCAGCCGG GGCTCCACCT
51 GGGCTTCGAG GCTGCCATTA TGCCTGCCAC AAGTGACAGC CTTCCTGGC
101 TACCCAAGGG CACCCACCGA GCACCCTCAG GTTCAGCTGT GCTCACACAR
151 GGGTGAATGA GCACCCCAGG GSAYCCACTT TTGGGTTCTA CCACTBCGAT
201 TCCCACCA

ug281

1 GAATTCGGCA GACAAACAGT GACCAGAACC AGTGCCCTAA GGAAAACAAC
51 CTCTACAAAC CACTGAAGCC ACTTGAACT CTCGGACGAA TGTGCTGGGT
101 TTCCACAAC AGCGACACTT CCCAGAGAGC TACTGACAAG GAGCCCTCAG
151 GAACTGATG TGCATCCTTG GACTTGCTCA CTCAGGCCCC TGAGTCAGAG
201 CCTGCCATAA TATCCATCCC TAGGCCTGCT AACACACTTC CAGGATAACA
251 GGGAGGAAAT GACATTCACA CGTTACCTTT TGTGATCTGC HGCCACCAVC
301 TGTTGGTTTG GAGGACTCTA CAMCAHHTTT CTTTVCCCAG AGATTGGGGA
351 AGATCCCCT AACTTCTGTG TAGCAAAGCG GGGGCTGGTC CTGGTT

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ug282

1 GAATTCCTGA ACAGAGGTTC TCAGAACATA TAAAAGATGA AAAGAACACG
51 GAATTTCAAC AGAGGTTCAT TCTCAAGAGA GATGATGCCA GTATGGACCG
101 AGATGATAAC CAGGTGAAGA ATGGAAGAGG GTGGGCCTAT AAAGAGAGAA
151 ACTGGGAAGG GAGAAGGATT TGGGGGAATG GAAAAAATTG AAAATATCTT
201 AAAATGGAAA ACTACACAGC GCTGTTCTCC TGAGTTGTTG GGGCTTCCCA
251 CTGAGGACTG GCTACAGTTG CCGTGCTCAA GGCCCCAGAG AGACAGGGTG
301 CTGAGGTCTC ATTTGGCCCA CAGCTCTTTA GGTTCCTC TAACTTGTA
351 CTACGTTTCA TTTTGGACAA ACAAGGTTTC TCCCTGTGTC AGCCTTGATG
401 TAGCTGACTT CAGTGTCATC TCTTTGCTCA ACCCCTCCCT GTCTTGCAGA
451 ATTTACACTG GGAGCTACCA AAATAACCAA AAGTTACTTT ATCCCATTTT
501 CACTCTTCTA GCCAAGGGCT GGCCTTAAAH GCAAAGTTAT GGTCTAATTT
551 AACCAGTTAC AGAGGTGTGT CTTTGATCCC CTTTG

ug283

1 GCGCGGATTC TTTATCACTG ATAAGTTGGT GGACATATTA TGTTTATCAG
51 TGATAAAGTG TCAAGCATGA CAAAGTTGCA GCCGAATACA GTGATCCGTG
101 CCGCCCTGGA CCTGTTGAAC GAGGTCGGCG TAGACGGTCT GACGACACGC
151 AACTGGCGG AACGGTTGGG GGTTGAGCAG CCGGCGCTTT ACTGGCACTT
201 CAGGAACAAG CGGGCGCTGC TCGACGCACT GGCCGAAGCC ATGCTGGCGG
251 AGAATCATAC GCATTCGGTG CCGAGAGCCG ACGACGACTG GCGCTCATTT
301 CTGATCGGGA ATGCCCGCAG CTTGAGGCAG SCTGCTCGCC TACMGCCAGC
351 AACTGGCGG HHCHCGAGCA TGCATCTAGA GGGCCCAAT

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ug284

1 GAATTCCTTG CACTATGCGG CTGCTCGKKK CCACGCCACA TGGCTGAATG
51 AATTGCTCCA GATTGCCCTT TCTGAAGAAG ACTGCTGTCT CAAAGACAAC
101 CAGGGATACA CGCCACTGCA CTGGGCGTGT TACAATGGTA ATGAAAAC TG
151 CATAGAGGTA CTTTGGAGC AAAAATGTTT TCGAAAATTT ATTGGTAATC
201 CCTTCACTCC ACTGCACTGT GCAATAATAA ATGGTCACGA GAGCTGTGCA
251 TCATTGCTCC TGGKGGCCAT AGATCCCAGC ATTGTCAGCT GCAGGGATGA
301 CAAAGGCAGG ACAACCCTCC ACTKGGCAGC CTTTGGAGAT CATGCGGAGT
351 GCTTGCAGCT GCTTCTGAGA CATGA

ug285

1 GAATTCGGAA AATGAAAGAG CCTTCCTGTC TTCAACATAT TTTTGTTTGA
51 GCTTGATGTC TGCCAACCAA GTACTCATAG TAGTATCAGT ATCACTGTTA
101 GTATCCACAT CAGTATCTTA ATTCCATGAC TTTTCACTCC ACCCAACTAT
151 GGCTCCTCGA TTTTCTTGTT TAAGCTTTCT GAATTTCTTT CCAGTCTGAA
201 ATGCTAATGA TGCCCTCAGA CTCCTTCCCT CTTGCCACAT CTCCCTCTTT
251 TTTGAACTCG TCTCCCCCTC TGTGTTTATA CCCATCATAC TTTGCTAATT
301 GCTACTTCTG TGTCTTAATC ATAACATTCT TCTTCAGTCT TTAAACAAGA
351 TCTGTCCCAG AGTCTAAATT TAGCCATTTT CACTCTCTGT GTGTCCCATT
401 TGGGCTTTGA ATTAAAGTTC TGAGTTCACT GGCTTTCATG AGGGGGAGGG
451 TCACAGAATA AAGTTTCCAG TGTGTTGCTC TTGAAAGGAG ATCTCCCAT
501 TTCAAATACM CTTCTCCCTA AATATTCTGT TA

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ug286

1 GAATTCACGG ATTTAACAGG AATAGAATGG CACAAGGTTT AATCACCAGG
51 GAAATAAAGC AATCACAACCT GCGGCTCGGG CGCTGCGGCC CTGCTCACAC
101 CGACAGAACT GCGGCTACAC AGAGATTGGA AAACCGCTAC ACGCGCCTGC
151 CCCTACCTGC GCCCACGGCC ATGCGCCCCC ACCTGAACTA AGGCAGAGGC
201 AAGCATCCCG GAGACTTCAC CCCACAACCT TCTGAGTCTT AGTCTTCVTT
251 CTGTGTACTG TGACAATGTA TGAATCAACT CTTCTCAATT CACTTGAGTC
301 CAAGTCGTAA CTGA

ug287

1 GAATTCGCGC ACTGACAGGC CACTGTRCAC GTGTGGAGGT CAGAGGTCAA
51 TGATAGAARC CCTCTCCTTC ACCACATAGG TCCTGGAGGT TAAACTCAGG
101 TTGTTAGACT TGGCAACAAG CCCTTTGTCC TGCTGARCCA TCTCACTGCM
151 CCRCCACCCT TTWCTGAGAG AGGCTCTTCA CTATCCTAAC CTAGGTTACC
201 CTGGAACTTA TGATGCACCC AGGTGCTAGT GTTCACAACCT GGGAGGAAAA
251 CCTCAAATTA GGGTTATGTG AACTGTAACA TAAATTTGTA ATTTTAACTA
301 CTTDTTTTTT TTA CTGTTTCTT TTGATATAAA DCCTCACTTT GT

ug288

1 GAATTCGCCC CGACTAGTCA CTGTTTAGAA AGAAAGAAGA AAGGAAAGAC
51 CCAGCAAACC TAAGCTAGTA TGA CTATCCA TCTAAAAAAG GCTAGGGAGT
101 TGTGTGGTGT TTGTGTGTAT GTTTGTGTGT GTGTGTATGT GTTTTATGTA
151 TAAGTCAAGT ATTCACAAAT CTTTTCACAC TAGCTGCCAT AAAAAGACAC
201 AGACATTACA CAAAACCATA TTGCTTTTCA TATGCACTCT CTGCAGTTCC
251 TAGCTCAGGC TCAAAGACAG CCCACAAAAG AGTAAAAGGA ACATGTTGGA
301 AACAGAAGTT GGGGAAGTCG GAGAACCTCT GCAGACTKGA GGTCGAACAT
351 GGAGACACAG ACCTCACAGA AACACACTGG CCAGCTCCTC ARTKCACAAG
401 TCTKCCTAAG CT

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ug289

1 GAATTCCAAG AGTATTAGAC ATTTTGAAG ATTATTGCAT GTGGAGAAAT
51 TATGAGTACT GCAGGTTGGA TGGACAGACA CCCCATGATG AGAGACAAGT
101 AAGTATGAAA GGGTGGGAAG TAAAAAGTG AAGTAAGAAC TTTATTTTTT
151 ATATTCCATT AGKTGTACCA ATTTAATATA ATGTTTGTAT TGTATTGCAT
201 CAGAGTATTT GATTTTTTTT AAAAATATGT ATTTTCTTTT AAAATTTAAT
251 TTGGTGTGAT AGTGTTTTGC CYAAG

ug290

1 GAATTCCGCC AAGATGGCCG AAGTGGAGCA GAAGAAGAAG CGCACCTTCC
51 GCAAGTTCAC CTACCGTGGC GTAGACCTCG ACCAACTGCT CGACATGTCC
101 TATGAGCAAC TGATGCAGCT GTACAGCGCC CGCCAGAGGA GGCGCCTGAA
151 CCGTGGTCTT CGGCGGAAGC AACACTCACT GCTCAAGCGC TTGAGAAAGG
201 CCAAAAAGGA GGCACCACCC ATGGAGAAGC CTGAGGTGGT GAAGACGCAC
251 CTGAGGGACA TGATCATCCT GCCGGAGATG GTGGGTAGCA TGGTGGGCGT
301 GTACMACGGC AAGACCTTCA ACCAGGTGGA GATCAAACCA GAGATGATCS
351 GCCACTACCT GGGCGAGTTC TCCATCACCT ACAAACCCGT GAAGCAC

ug291

1 GAATTCTGGA GAAGTGGGAG GTGTACTGTA CGGGGAGGGA CCAGGGGAAG
51 AAGAGGGGGG TGGAAAGTAA GAAGGGAGGA AAGGCAGGAG GGGGAGAGAG
101 AGATGTTACT GCTTTCTTTT CAGCACATAT AAAACAAAGG ACTAAAGAAA
151 CGCATATTTA AAATCCAGTT TCTATATTCA CACCTAATTC ACTTCCAAAC
201 CTA CTGTA AAATCCATCT TCAGCAAATG AATTTGTTGG GAAAATGGCC
251 AGGCATCCAT ACACAGAAAG GTTCTCCATC ACCATAAATT AACTCATGGT
301 ATGCTGAATT AATTGTTGAA AATTACTAGA AAATATGTTC ACAAACCTGG
351 CAAATTCAGA CTATGTCACA CACAAATACT CCTTTCTTTC TCCCTCCTCC
401 TCCCT

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ug292

1 GAATTCGGAA TGTTACCGCA CCGCATGCTC TCCCTGCAGC CTTTCTTGCA
51 CACTGGCATG CTGGTCTAGG AGCCGCTATC TATCCTCTCC ACAATGCCTG
101 CHCGCCTCCT CMCVCAGTTG ACAAGCCAAG CCGCCACTAG CTTTCATCACC
151 AACHCGCTCT CCTCCACCAT CCTGGAACCC TTTCCCAGCT TCACCACCAC
201 ATCCGTATMM CTCCTTCTTC CTAGCTTCCT CCACCGAACC GCACTCTTTC
251 CTGGGCTATC TTCACCATGC ACTGCTGCTG CHGCTCCTCA GTCCTTCCTA

ug293

1 GAATTCGTTG GCGAATCATC ATCTCTTCCT CTCGTCTACG CCGTTCCTCC
51 TCTTGCCTCA ACTGCATTTC TTTACGTTTC TGCATTCTT GACTGTGAAG
101 TTCCTCCATG CCCTTAATTC TTCCTGGCGT CTCATCAGAT CTTKGCGCAA
151 AAGATTTGCT TGGTGTTTCA GGTAAGCATC TTCCATTTC CTTTCCAATT
201 TGTCTTTAGC ATCCTTCATG TTTTTTCAA CTTGTTCCCT TTGCTGTTTT
251 TCCATTTTCA CCAAGGACTT CCATYGTGGA GAATATTCAC TCAAATGTGC
301 CATGCTGAGC AAAACGAGGT GGTGTTTCTC TCTCCTTTTG ATACATTGGA
351 TTCTTCT

ug294

1 GAATTCTTCC CATGCACATG CAACTCTATG GAGACGCTCT CCCTTGCACC
51 TTCGTAGGCT CTGTGTGTCC TCAGGCTGCG TGGTGAGCGT CTCGTACCTA
101 CAGAGCCATT TCACAGCTCC ACAAACCTCAG TTTAAACAG CAGCACCGCT
151 TCTACTCTAT GCTTCGGTTC AAGTGAGGAA GTGAGGCAGG TACAATTGCG
201 TCATTCACAC GGCTCTAGTC AGGTAGCTGG AGCAGAGAGG ATGGAGAACA
251 GGCTCATGGG CATCTCTCTG TGCTGAGTAT CCTGGGCTCT TTTCCACAAG
301 GTCTCTCCCA TAACAAAATG AGCCCTGGAC AGCTACAGGT GTCATACCCC
351 AGTGCCGCAC TCCAACAACT TCACAGCTTG CTAGAACTCM GAAATCAATA
401 AATCAGAATT CAGAGCCTCA TTCCTCT

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ug295

1 GAATTCTTTC TCAGCTGTAA CTGATGGCTG CGTCTGAAGC CTTTACTCTA
51 ATGGTGCTTA TGTCTGTGTG GGTTCACCCC ATTCTATAGG GCTAGGTGGA
101 ATTGACGTTT GTTCTTACGG TGTTTTGTCT ACTTCATTGT ACTGTGACAT
151 GCTTGAATAA GGGAGGGAGC GAATGGATTA CTTACCTGTC AGGATGCCAA
201 GAGCACCTGT GTGGTCTGTC AGCCTGGACC TCAGTGAGCT GCGGTAAGCA
251 GGTGGCAAC CTCAGGCTCA ACCCATCTGT GAGGTCAATG CATCTTGAA
301 AACAGAAAGT GACCTGGCAG CATATTCCTT ATTTGTAGTA CTGTTTTGTG
351 TTTAGTTTGT TGTTGTCCTT TGAGACAGGG TCTCTTAAAG TAGCCCTGDC
401 CTSGCCGTGA AATCCACAGA GAAC

ug296

1 GAATTCCACA ATTATCTCAT CAATAATTAC CCTATTTATC TTATTTCAAC
51 TAAAAGTCTC ATCACAAACA TTCCCACTGG CACCTTCACC AAAATCACTA
101 ACAACCATAA AAGTAAAAAC CCCTTGAGAA TTAAAATGAA CGAAAATCTA
151 TTTCTCATT CATTACCCCA ACAATAATAG GATTCCCAAT CGTTGTAGCC
201 ATCATTATAT TTCCTTCAAT CCTATTCCCA TCCTCAAAGW CCTAATCAAC
251 AACCGTCTCC ATTCTTTCCA AACTGACTA GTTAAACTTA TTATCAACA
301 AATAATGCTA ATCCACACAC CAAAAGGACG AACATGAWCH CTAATHATTG
351 TTTCCCTAAT CATATTTATT GGATCAACAA ATCTCCTAG

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ug297

1 GAATTCTTTT TGGCTTCTTA GGAGGTATAA AGTTCTTTCC AAACACTGCT
51 TCTCTTCTTT CTAAATCTGC AGGATTTCCTA CTAAACCTT CATTGGGAGA
101 TGTTTTCAAC TTGGTGCAAA TGCCATAGAC ATCTCCATAG CTCTCCTGTA
151 TTTTCCGTAA TGCATCCGTG GATCTGAGCT CCATGAGAGC TCGCAGCTCT
201 GTAAGCGTAA TTCCAAAGTC TCCATCATGG TTAGCTTCTT TCAAAGAGTT
251 CTTACACCG CTATACGCAA CTGAGTTGTT GGCCATGTCG CCCATCACAA
301 GGATAATTTA TTAGGAGGAA AATGTTTCCC AGAAGAATGA AATTTTCACC
351 TTGAATGTAG ATTTCCAAGC TGAAAATCTT TTAAATAT

ug298

1 GAATTCCCCA AGCTTGTGCA GAGGCCAGGA CCACCTTGTT TTCATGCTCT
51 TGACTGCTGG GAGCAGTGGA AGAGCTAAGA ACAGAGTAGG GGCCCSAGGG
101 CTGGATCTAG CCCAGCCCAG GGSCAAAAAG GAAAAGAGGG GAGTDCTCCC
151 AGCTGGTTTT GGCTTGGTGA AGGCTGTTGGC TGGGAGTTCT YGAGAGGCCT
201 CCTYGCTATC TTAGACCACY GGKTCTTTTA

ug299

1 GAATTCACAT ATGCAAAGAG ACTGAATGTG GATCCTTTGA CTTTCTCTTG
51 CTCCCGATCT CTGTGCCTCC TAGTAGAGCA CCCGCCCACT GGGCAGCCCA
101 GGAAAGAGCT GGAGACATCA GCCCAGTGGA CTTCTAGGAA GTTGAAAAAG
151 CAAAATAAAA CATTTTCAGA GAGCGTTTCC CAAAWCHGCG AGCATTCTCA

141/472

ug300

1 GAATCCCCT ACATCAAAA TTATTTAAGT TGACCAAGAT AAAAACTGT
51 CTCTAAAAGC TTATATACAT TAGAAGTAGC AAAAATAATA ATAAAGGAAG
101 AGATTAGAAA ACAGCCATCA AATTCAGACA TCTACAAGAA TTCTCCAACA
151 TCTGCTCTCT TATCTCGGCA TTTGCTTCGA GCTTTTGTTT GAGCTTTGAA
201 AGCTGCAGAG TTATATAAAT GCCTTTCAA ACGAGAAATC TTCATGGTTT
251 TAAGTGTTGC AGCATCAAGC ATCACAGGGG GGTCCAAGCT CAAATACTTT
301 TCGAGGRATT MMWTTTGTCT GCAAGTGGTA CTGCATCCCT GATCCMAGAA

ug301

1 GAATTCGCGG CCGCTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT
51 TTTTACTGT TAAAGGATTT ATTGCAGTAA TACAACAAAG GTTTAGAAAA
101 CATCTGTGTG ATCAACCTGA CCTGGAAGTT TCAGTCGCAG CAAGGGGGTT
151 CTGACGTTGC AGCTTTCCCA ATGCACACCT GAACCCACC CAATGCTGAC
201 CCCCATACCA TGGTAAGTTA CATTCTTGG TTCTACGTAA GACCATGAAC
251 AGCCCGTGTG GTGCCTCTGA GTGTCTATTA GTATTACCTT GTTCCAAGAA
301 ATCATTTTTA AATGGAAAAC ATGATCAACT TCTATGGCTT TCGGTTTAAA
351 AAAAAAAAAA CAAAWCACCA GCTTCA

142/472

ug303

1 GAATTCGTCG TTTTGTCTGT CACCAGCAAC ATTGCCTCGT CTAACATCTT
51 TGACCGACAC GTTCTTTACA TTGAAGCCCA CATTGTCCCC AGGAAGAGCT
101 TCACTCAAAG CTTCATGGTG CATTTCACA GACTTGACTT CAGTTGTTAC
151 ATTGACTGGA GCAAAGGTAA CCACCATGCC AGGCTTGAGA ACACCAGTCT
201 CCACTCGGCC CACAGGGACA GTGCCAATGC CTCCAATTTT ATAGACATCC
251 TGGAGGGGCA GTCGCAGGGG CTTGTCAGTT GGACGAGTTG GTGGTAGGAT
301 ACAATCCAAA GCTTCCAGCA GCGTGGTGCC ACTGGCACTG CCATCTTTGC
351 GGGACTTTCC ATCCCTTGAA CCAAGGCATA TTAGCACTTG GCTCCAGCAT
401 GTTGTCACCA TTCCAACCAG AAATTGGCAC AAATGCTACT GTGTCAGGGT
451 TGAGCCAAT TTTCTTAATG TAGGTGCTGA C

ug304

1 GAATTCTTTT AACTGTATTA CTGAATACCT GAGGTAGTTG AGTAAAATG
51 CACGTTTAAT ACCCTGCCAA CAGCGGCTGG CACTTCCCTT AGGTTATCCA
101 TGTTAGTGTT AGAGAAACAG GAGACAACAG CTCTTCTATT CTAATGGCTT
151 AATGTTGTGT TCCTCTGACA ATTCTACTTT GATCCAATTT CAACAATTGG
201 ACTTAGGAAC AATCTAGTTT TAAATTTATT TGATAAATTT AGTGAATGTA
251 CCATTTATDC CAATTTCTGG CATTATAGAG GGATATTAAG AAAAATTAGC
301 ACGTTTGTTA TACTTTGATA TCACAAGGGA AGTGCAGAGT TCTCTTTCCT
351 TACCCCCACT TTTGTTTGTT TGGGGTTTTT GTTTTGT TTATTTTAGC
401 TGTTTTTTGT GCATGATACA AGTTWAGATG CCCTGGATGT TTGATTTTGG
451 ATGACATGCT ATGTYCTTGT CAGTGGTGGT TCATTTCAG TAAATYGATT
501 GAGGACA

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ug305

1 GAATTCTGGA TATTAATGAG AGACTACGGG TATCGAGATA TCAAGAGTAG
51 GAATTAAATC ATACTCCCAA TAAGAGAACA TATCCCACA ACAGAAATAC
101 TCATTCCCCT AATTGCAAGG AAGATTTTAA GGCAGTGAGT CTCAAAGTGT
151 AATCTTACCA CCAGCAGCTG TAATGCTGCA AAAATTCTCA GGTTCTACCC
201 AGACCTACTA GATCAGYBCT GGGGGTTAGC TAGGCAGCCT GTGTGCTAAC
251 AAGTCTCTCT GGGGACTCAG GTACACAATG AAGTTTAAGA AAAGTGCTTT
301 TCAGGCTGGG GATACAGTTC HGTTGGGAGA ATCTTGCCTA ATATGTTCAA
351 GGCCCTGAGT TTGGTTATCA GCATTACATA AGTGTGTGTT TGTACATGCC
401 TGTCTCTTT GGGAGGTAGG AGATAAAGG

ug306

1 GHCCCCCGGC TAGAGCGGCT TTTTTTTTTT TTTTTTTTGT TTTTGAGGC
51 AGGGTTTCTC TGTATAGCCC TGGCTATCCT GGAAGTCACT CTGTAGACCA
101 GGCTGGCCTC GAACTCAGAA ATCTGCCTGC CTCGCCTCCC CAGTCTGGGA
151 TTAAAGGCGT GCCCACCCT GCCCAGCTTT TTTTTTTTTT TTTAATCCTT
201 TTTATTTTTT TTAATAGCTA AGTGGTTTGA CTGGTTTCA GTGGTAGACC
251 ACGTGGAAT GAGAATATTT ATCA

ug307

1 GAATTCCCCG GCTCGAGCGG CCGCTTTTTT TTTTTTTTTT TTTCAGAAAG
51 CCAGTTTATT TCTAAGACTT TGTCATAAAA CTTTATAGCGG GTACCAATAG
101 TTACCTGCCA TACTCGCACC AAGTTGTCTG TATAGCCAGC AAACAGAGTC
151 TKGCCATCAG CAGACCATGC CAAAGAGGTA CACTGGGGTG GCTCTGCCTT
201 KCTGCTGGTG CTGATAACTT CTTCTTCAAT TCATCTACAA TGATCTTGCC
251 CTCCAAGTYC CAGATCTTGA TGCTGVGCCA TGGCAGC

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ug308

1 GAATTCGCTC TCCTTCCTC GGAACAACAT TAGCTACCTG GTGCTCTCCA
51 TGATCAGCAT GGGGCTCTTC TCCATCGCTC CCCTCATTTA TGGCAGCATG
101 GAGATGTTCC CTCGGCACAG CAACTCTACC GCCATGGCAA GGCCTATCGC
151 TTCCTGTTTG GTTTTTCTGC TGTCTCTGTC ATGTACCTGG TGTTGGTACT
201 GGCAGTCCAA GTTCATGCCT GGCAACTGTA CTACAGCAAA AAACTCTTAG
251 ACTCTTGTT CACCAGCACA CAGGAGAAGA AACBGAAATG AAGCCTGCTT
301 GATAAACTGC TCTCGAGGGG TAAAACCTAG GBCTCCCATT GAGCAGCGTK
351 AAGGGAGCHG TCCAGACTCT CCATCGATTG TVGCATCTGT GATGTTKGVC
401 ACC

ug309

1 GAATTCGGTT ACCATCGTTA AGCCAATCGT TTATGGCAAT GTTGCCAGGT
51 ACTTTGGAAA GAAGAGAGAA GAAGACGGGC AACTCACCA GTGGACTGTG
101 TACGTGAAGC CCTACAGAAA CSAGGATATG TCAGCATATG TGAAGAAGAT
151 CCAGTTTAAA TTACACGAAA GCTACGGCAA TCCTCTAAGA GTCGTCACCA
201 AGCCTCCATA TGAAATCACA GAAACARGAT G

ug310

1 GAATTCGGCC ATCTGGCTTA GGTGCCTTAC ACTGGTTGCA TTCATTTCTC
51 CAAGAGAAGT TCATGTTCTC ACATGTAGGA TTAGGACACT TCCAGTCTCC
101 AGCTCGTTGC TGTCTCCAC CTCCACCACC TCCACTGGGG AATCCTCCCC
151 GGCCACCACC ACCACTGCCA CCTCCTCCAT AGCCTCCACG GCCCATGGGT
201 CCTCCTCGVC CTCGGCCTCM VCGACCATT TCCACCACCC GATTGAAGTC
251 AGCTCGGCGG GTAGCAAATG AAAACTTTAA TAGGATTCCC AGAGAATTCT
301 TTACCATCAA AACMAGTCGA T

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ug311

1 GAATTCGGCG GCGTTTATTT GGAGCAAATT CAGCTCCCGG AGCTGGACGG
51 TTGAATGCAG GAGGAGTTCC ACCAATTGCT CCAATTCCTT CCATTGTTGC
101 AGCTTGGCCA AAACGTTTCTG TTGTTGGTGG GGTCAATCCA AGGGTTCCAT
151 CTGGCATCAT AGTGGCAGGT CCTGGAGGAG CTGGAGTACC AGGTGGCACA
201 GGAGCAGGGG GCATCGCGCC TCTATTGTTT ATGCCCATAG CACCTCCCAT
251 AGCCATTTGG CCCATCCGTA TCTCTTVTTC TCTCGCATCA GGGAAGGTTC
301 CCTTGAATCC TTCCWGCCT

ug312

1 GAATTCTTCC ATATTTGTAT CATGTAGCTG TGCTTTTAGC TTTTCATTTT
51 CAGCTAAAAT TTGTTTCTAA AGCTTTTGA AGTCAGTTGA GTCATCCTTT
101 TCTAGCCTGC TACTGTAAGG TTTTCTGTCT TCTAAGTAAC TGTATGAAGC
151 AGAGCGACCC AGCAAGGAAT CATAACGATC ACTTGATGAT GTGGAAGTGC
201 TGTCATACCT GGAAACAGAA TCCGTCTAGA AAGTAAAAAA AAAAAAAAT
251 TTCKGSCCKC HCGADCGGGG AATTCCACCA CACTGG

ug313

1 GAATTCCCAG TTTCTGGCTG TTATAAATAA GGCTGCTATG AACATACTGG
51 AGAATGTGTC CTTATTGCAA GTTGAAACAT CTTCTGGGTA TTTGTCCAGG
101 AGAGGAATTK CTGGATCTTC TGGTGGTGT TTTTCTTCAA TTTTCTGAAG
151 AACTGCCAGG CTGATTCCA GAGTGCTTGT ATTAGCTTGC AATCCCACCA
201 ACAATGGAGT GTTCTTTTT CTCCACATCC TCGCCAGCAT CTGCTCTCAC
251 CTGAGTTTTT GAHCTTAGAC ATTATGACYG GTGTGAGGTG GAATCTCAGG
301 GTTGTTTTAA HGTGCATTYC CYTGATAATT AAGGATGTTG ACMTTTCAGG
351 TGCTTCTCAG CCATTCAGTA TTCGTCAGG

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ug314

1 GAATTCGACA AACAGTAAGA CTTGACTGGA ATATCTAGTT ACAGAATATC
51 CCAGGGAATT CTTTGGTCTT ATCATTTTAA GGAAAAAGAA AAGCAACGGC
101 AAGCAGAATT ACAGGAGAAH GAAATCGCAG AAAAAAAGTT TAAAGAATGG
151 TTGGAAAATG CAAAAAATAA ACCTCGTYCG CTGCAAAGAG CTATGGTTAC
201 TCCAGTGGAA ACTTACAGGT TGGATTTTAC GTCTGTGCTT ACATAAATAT
251 GGTTCGAGA AGCAAATGAT ATATATAGAA ATGTATAAAA GTAATTTTTC
301 TTTGAAATTA TTATTTTCT

ug315

1 GCGCTAGGCG AGCGCGCCTG CCTGAAGCTG CGCATTCCCG ATCAGAAATG
51 ACCCAGTCGT CGTCCTCTCG GCACCGAATC GTATGATTCT CCSCCAGCAT
101 GCTT

ug316

1 GCGGTAGGCG AGCGCGCCTG CCCTGAAGCT GCGCATTCCC GATCAGAAAT
51 ACCCAGTCGT CGTHTCTCTC CCCGAATCGT ATATTCT

ug317

1 GAATTCCGCT GCCTCAAGCT GGCTTAAGTC CTGCTGAGAT TCAGCAACTA
51 TGGAAAGAAG TGAAGGAGT CCATAGTATG GAAGACAACG GCATCAAGCA
101 TGGAGGGCTA GACCTCACGA CTAACAATTC CTCCTCGACT ACCTCCTCCA
151 CCACGTCCAA AGCATCTACC ACCCATCACA CATCATTCCA TAGTGAACGG
201 ACAGTCTTCA GTTCTGAATG CAAGGCGGGA CAGCTCATCA CATGAGGAGA
251 CTGGGGCCTC

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ug318

1 GAATTCCGAG GCCAGCGCCG CGGTGGAGAA GCTAGTTTCC GCGGTGCGGC
51 AGGCCGCCGA CTTCGCCGAG CAGTTTCGTT CCTACTCGGA GAGCGAGAAG
101 CAATGGAAAG MGC GCATGGA GTTCATCCTG CCACCTGCCT GACTACCGAG
151 ACCCACCCGA CGG

ug320

1 GAATTCGTAC AGTCACCAAA GTCACATTTT AGAGGAAATC TTAATAGATC
51 TTCTCACAGC CAAAAATGCA AGAAGCACAC ATTTTATAGT TTTAAGTTTG
101 TATCTCAGAG CCTCAGTCCA TACAGAACAA AGTCAGCCCA ACAAATCAG
151 TTCAAGGAAA ACAAAGTTA ATTTGCTTGG GCTTCCTAGC TAACACTTGG
201 CTATTTTCCC ACTCAGGTGG AGGAGTGTGT AATTCTGCCA GTGCCCCGGA
251 GCTGAGCACC CAGGCTAAAA CACACAAAAA AACACAAGTT AGGTCCTGGT
301 GCTGAGAAAG TTACAGTTAG AGCGGAGGCT GCTGACAGCC TGGAGTTCCT
351 GGAATGATCA CAACTCCAGC AGCACAACCT TGA CTTACAA TTGRCAGCTC
401 TGCTCTACTC TGGGGTCTGA AAACCC CAGA GAGGCGCAA GCTGACTCTA
451 AGAGGCAAGG TCTGTCTTGC TGTTGTTCTA TTGCCACGAA GAGACACCAT
501 GACCAAGGCA ACTTTGAAAG CATTTAATTT GGGGGKTCAT GGATCCAAGG
551 GG

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ug321

1 GAATTCCTGG AACTCACTCT GTAGATGAAG ACTGTAGCAG AACTCAGAGA
51 CCCACCTGCC TCTGCCTCTC AAGTACTGGG ACTAAAGGCA TGCAGCACTA
101 TTGCACTGCT GAGTTTTGTT TTCTTTTTCT TTCTTTTTTT TTTTTTTTGG
151 TTTTTCAAGA CAGGGTTTCT CTTTATAGCC CTGGCTGTCC TGGAATCAC
201 TTTGTAGACC AGGCTGGCCT CGAACTCAGA AATACGCCTG CCTCTGCCTC
251 TGCCTCCCGA GTGCTGGGAT TAAAGGCATT CGCCACCACG CCCGGCCTTC
301 TTTTTTTAAG ATAAAAGTA AATTACTTTT ATTAATTTAA AGTTATGTGT
351 GTGTTTTTCT CTAGGTATGT ACATAAGAAT GCAGATGCCC ACACAGGTCA
401 GAGGCATCAG ATCCTCCTGG AGTTAAWGCT ACAA

ug322

1 GAATTCTGAG TGAGCTGACC CAAGGCCCAT TGGGCTCAGA CCTTGCTGAA
51 TATGCTTGGT GACACCTAAA CCTGCGCGCT GTTCTCATTT TGGAAGTGTG
101 TCTGGCTTTT GCTTTTCCTT CCGCACAGGA AACTATCATG AAATTCCTTC
151 CTTTGCTTTG GTGCCAAAGC TTCATCTCAT CCATTTCTTC AGCAGCCATT
201 TCCTGAGTGT CTGCACTGTA CTGGGCCTGG TTAAAGGCCA GGGAAAAAGC
251 AGATGTTGGA AAAGAAGCCT GCATACTTCC GTAGAATGTA AGATGTAAC
301 CAGAGTTGAG AAAAGGGAGG GGTGACATTT GTAACTTTTT CCCTTGCTGT
351 ACAGTCTACA ATAAATTATA CTACATAAAA TTCTTTAACA GTATTCATTA
401 ATGTAGCTGA CCCATTAGGA TGGAAA

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ug323

1 GAATTCGCTC CAACCATTCT GGTCAGGAAA GAGTGTGAGC ATGCTTCCTG
51 ACAACTGCTA GAAAACTGT GAGTTGAGTA CACTGCTCCT CTTTATTATG
101 GCCCAAACCT CTGACCTTCG GTTCTTTTTG CAAGGAACTG AAGAAAGAGC
151 TGAGACCTTT CTTATTCTGT GGAATGTCAG AGGAAGATCA CATGACAAAG
201 GCTGAACACT TTTAGCTTTG TTGTGTACTA AGTCCAGTGT ATCAAATAAG
251 AAAATAACTT ACTCTGGCTG CTGTAGGGTG GGAGATGAGT ATCATGGATT
301 CTAGACAAAG TGACCAACTC TCTCTCATAT ACAAVCACA CTCTGGGGGR
351 CTCCCAAAGC GATCTTCCTG AAAGCTAGAC TTCTGTAAAG TAACTCCAAC
401 AACACAGTCT CTTBGGTGAA TATGTAAGTT TTTTAAAAT ATTTTAAAGA
451 AC

ug324

1 GAATTCCTGC CATTTCAGG AGATTGCTGA GCATCTTCAC AAAAACCAGA
51 ACTTTCCAAG TGCTGAGTAG GATCACCACC TAAATAATAC TCTTCTTGTC
101 CAAATTGCTC CATAGAGTCA CAGTACACTT CACTATCTGA ATCACTTGTT
151 AAATGGTGTA TTCCTGAAGC ATCTTCACTG GGATCTTCAT TTCTATCTTG
201 GTGAGCACAG ACAATGGTGT TCTGTCTGCT GAGAGCTCTC ATCTCCAGGC
251 TTTTCATCTT CACVCTTCTG GTGCCCCGGA AGAATCAGTA TGAATGTCAC
301 TCTGTATATC CTGAACAAAG CTACCTTTAT AGCCATTGTA ACAATGATT
351 CCAAATTCTT ATCTCTGATT YCYTCAGCTT

150/472

ug325

1 GAATTCCCGG CCGTCCCTCT TAATCATGGC CTCAGTTCCG AAAACCAACW
51 AAATAGAACY GCGGTCCTAT TCCATTATTC CTAGCTGCGG TATCCAGGCG
101 GCTCGGGCCT GCTTTGAACA CTCTAATTTT TTCAAAGTAA WCKCTTCGGG
151 CCCC GCGGGA CACTCAGCTA AGAGCATCGA GGGGGCKCCG AGAGGCAAGG
201 GGCGGGGACK GKCGGTGACT CGCCTYCKKG HKGACCGCYC KCTCCCCAAG
251 ATCCA ACTAC GAGCTTTT TA ACTGCAGCAA CTTTAATATA CCTATTGGWG
301 CTGGAATT

ug326

1 GAATTCAGAC TTTGTCATAA AACTTTTAGC GGGTACCAAT AGTTACCTGC
51 CATACTCGCA CCAAGTTGTC TGTATAGCCA GCAAACAGAG TCTGGCCATC
101 AGCAGACCAT GCCAAAGAGG TAACTGGGG TGGCTCTGCC TTGCTGCTGG
151 TGCTGATAAC TTCTTGCTTC AATTCATCTA CAATGATCTT GCCCTCCAAG
201 TCCCAGATCT TGATGCTGGG CCAGTGGCAG CGCAGAGCCA GTAGCGGTTG
251 GGGCTGAAGC ACAAGGCATT GATGATGTCC CCACCATCTA AAGTG TAGAG
301 GTGCTTGCTT TCATTGAGAT CCCACAGCAT AGCCTGGCCA TCCTTGCCTC
351 CAGAAGCACA GAGGGATCCA TCTGGAGAGA CAGTCACTGT GTTCAGGTAG
401 CCAGTKTKGG CCAATGTTGG TTGGGTCTTT AGCTTG CAGT TAGCCAGATT
451 CCACACCTTG ACCAGCTTKK TCCCATCCG

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ug327

1 GCGCGGATTC TTTATCACTG ATAAGTTGGT GGACATATTA TGTTTATCAG
51 TGATAAAGTG TCAAGCATGA CAAAGTTGCA GCCGAATACA GTGATCCGTG
101 CCGCCCWGGA CCTGTTGAAC GAGGTCGGCG TAGACGGTCT GACGACACGC
151 AACTGGCGG AACGGTTGGG GGTTTCAGCAG CCGGCGCTTT ACTGGCACTT
201 CAGGAACAAG CGGGCGCTGC TCGACGCACT GGCCGAAGCC ATGCTGGCGG
251 AGAATCATAC GCATTCGGTG CCGAGAGCCG ACGACGACTG GCGCTCATTT
301 CTGATCGGGA ATCCCGCAGC TTCAGGCAGG CGCTGCTCGC CTACCGCCAG
351 CAACTGGCG GCCTCGAGCA TGCATCTAGA GGGCCCAATT CGCCCTATAG
401 TGAGTCGTAT TACAATTCAC TGGCCGTCGT TTTACAACGT CGTGA CTGGG
451 AAAACCCTGG CGTTACCCAA CTTAA

ug328

1 GAATTCATTA ACTGTGCTGT GATAGGATGT AGGGGGTGAA GTAAGAGGGT
51 AAGCGCCTGA TGCCCTGGC TGCTTTGGAA ATGGCTGTTG CTGAGGTGGC
101 TGGAGCTGTG ATATTAAAGA GTCCATCATG TCACCTCCTA TAGGAGAAGG
151 AGGGTTATCA TCCTCATTTA CAGATCTTCT CCGAGCATCT TGATTGCTAT
201 CAACAAACAT GTTCAGGAAA GTCTTTAATC CTGGTGCAGG ATAGAAGCCT
251 TCAACTAACT TGCTGTTATC AAAAAGACTA TAGGCACCGT CCCGTATTGC
301 CACGACGCCT CGACTACGGC AGTATATGTC AATGCAGTAC ATGTTCTGA
351 AGGCCAGTCT GATGTGGGTG GATGATTGTG GTAAAATGGA GAAACCCYGG
401 TAGGCSGTGT TAGTTCTCTG GTCAAGCCCA ACATTGGAAC AGTAGGGAGT
451 TTGTTGATAG CATTTAATGG TGCCTGAGTA TCAAACAAAA CCTGTAATAA
501 CTGACCACAT TTGGTGTTTT GTTTGAACAT TTCTTGAAGT TGA

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ug329

1 GAATTCGGCG GAGGCGGCGG CGGGCGAGGC GGGCGCGAGC GAGCGGGACC
51 CAGACGCGGG CCGCGCCGCC GGCGGCTGCG GGTTCTGTCG GGCCATCTGC
101 TGGGCCGGCC CCAGGAGGCT CCGAGTACCA ATGAGTGCAA AGCGCGGAGA
151 GCCGCGTCGG CGGCCGGGGC GTCGCCCCGCC GCTACTCCTG CCGCACCAGA
201 GTCGGGCACC ATCCCCAAGA AGCGGCAAGA AGTTATGAAA TGAATGGAT
251 GGGGCTACAA TGATTCCAAG TTCTTATTGA ATAAGAAGGG CCAGGTTGAG
301 CTGACTGGGA AAAGGTACCC ACTTAGTGGC TTGGTTTTAC CAACTTTGAG
351 AGACTGGATC CAAAACACCC TTGGAGTAGT CTGGAGCATA AAACCTACCT
401 TAAAACATC

ug330

1 GAATTCGAAC ATTTGCTCAG GTATGAGGCA GGGTGAGAAA GCTGGGTGAG
51 CCTGCATCTA CAACTGAGT GAATTATTTT CHHTCTGTGT GTGAATGTCA
101 GCATGACACC CTGAGTAGAA SCCAGACCCT GTCCCCTAT

ug331

1 GAATTCCTCA AATATCTATA TAATAATTTA CAACCGTTGT TGTGGAGATA
51 GGATCTCACT ACACAGTGCA CGATGCCCTC AAAATTATGT AGCTGAGGCT
101 AGTCTTAGCC TTCCAGGCGC TGGGGTTACA GATATGTGCT ATTACAACCA
151 GGCTTGGCTT ATACTCTTAG TATGCAAACA TAGTCTTCAT ATTTTTATAT
201 ACCTAATGCA TGCCTATTAT ACAATACACA AAATCATGCA AAGCTATCAC
251 AAAATTCTGT AGTAGAAACA ATTTGATTGA TGCCAACTGT ATGTCTCACA
301 TAACTCAATT CCTTCTTTTA AGAATGAAGT CTTCAATTTC AAGTGATAAT
351 TCTATTAAAA CTAGAATCAA CACAGTAAAA AT

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ug332

1 GAATTCCTGC TATAATAACC TAAGCTATTA AGTCACAACA GTTTTAGCTT
51 TTCTTTTTAT AAGAGTTTAA GATTTTATTT ATTTTATTT TATGTGTATA
101 AGTATTTGTC TGTGCATCAT GTACATGCCT GGTGCCCAT AAGGCAAGAA
151 GGGGACACTG GAATTACATC CCTGTAATTG AACAGGGTCC TCTGTAAGAG
201 CAGACAGTGC TTATAATTGT GAAGTCCTAT CTGTTAGVCC CCAGTTTTTG
251 GTTTTCAAAA GGGGTAAGTC TAAAAAATAT TATARAACAG AACATGCTCA
301 AAATAAAATG TTGGCAAAA

ug333

1 GAATTCGATG TTTCGTCAGG AGAGATGAGG TAACAACTA TTGATAACAA
51 CATAGCCATA AGAGACCAAT ACTGACTTCA AGACTCAAAA GAACACAGAC
101 CCTAAAATCA CAGCTTTCAG GCAGTGTGTT TCTAGACCAC GGGGCAACTG
151 TACMGCACAA AGCAGCATGT GACAAGAAAC ATCATTGACA AGGCAGTTCT
201 CATGGGGGAT GGAGCAGGCT AGTGGGGGTC GGGGTCCTG CYGGAAAMCT
251 TCAGACCGCA T

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ug334

1 GAATTCGCGT CGGACCTGCG GAGCCCAGGA TGGTGTGCT CGAGAGCGAG
51 CAGTTCCTGA CGGAGCTGAC CAGGCTCTTC CAGAAGTGCC GCTCGTCGGG
101 CAGCGTGTTT ATCACCCTCA AGAAATATGA CGGTTCGCACC AAACCTATCC
151 CGAGGAAGAG TTCTGTGGAG GGCCTCGAGC CTGCAGAAAA CAAGTGTCTG
201 TTGAGAGCCA CGGATGGGAA AAGGAAGATC AGCACCGTGG TGAGCTCCAA
251 AGAAGTGAAC AAGTTTCAGA TGGCCTATTC AAATCTACTG AGAGCCAACA
301 TGGACGGGCT GAAGAAGAGG GACAAGAAGA ACAAGAGTAA GAAGAGCAAA
351 CCAGCACAGT GACAGGCGTT GGCTGCTACC AACCAGCTGC ACAAGTGCAT
401 TTTTCCTCTG TTTGCTGCTT TCAGCACCTC TGTATGTAAC TGTTTCCACG
451 GAAGGGTCCT TTAAGAGAGA AGGACTGGGA TGGGCATGGG CTAGTTGTBG
501 TAAGACGCCA KTTTTSATTG TGCYGTGTGG GCTGGATATT CTTAGATTCC
551 AGCCGTA

ug335

1 GAATTCCATT GGCAATTTCT TTTTCCAATT CCATAACTTT ATTCATTTCC
51 AAAGAGAGCT GGTTTTTCATC AATAGGCAAA CTTTGTTCTT GACGAATCAG
101 TCTGGCCACA GAAATCATAA AATCCACATA TGCTGTGCAA GCCTCTTTAT
151 ATAWTCCAGT GCACTCAGAC GCATGCCCYC AMGCATAGTT ACAAC

ug336

1 GAATTCCTTG AGAATTAAAA TGAACGAAAA TCTATTTSCC TCATTCATTA
51 CCCCAACAAT AATAGGATTC CCAATCGTTG TAGCCATCAT TATATTTCTT
101 TCAATCCTAT TCCCATCCTC AAAACGCCTA ATCAACAACC GTCTCCATTC
151 TTTCCAACAC TGACTAGTTA AACTTATTAT CAAACAAATA ATGCTAATCC
201 ACACACCAAA AGGGACGAAC ATGAACCCTA ATAATTGTTT CCCTAATCAT
251 ATTTATTGGA TCAACAAATC TCCTAGGCCT TTTACCAC

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ug337

1 GAATTCCTTG TGTGCCTGGT CAGCTCCATA CACCCAGCAA TTCACCTGTA
51 AGATCTGTCC TGCTTTGGAG GCCGTGGAGT GGAGTCTTCC TTTTTCAGGA
101 TGAAAGAAGT TGGCTTCTCC TAAAGACAAC AGTCTCAGAC AGGTCTCAAG
151 ATCCCTGTT CTCACACTTG AATGGGTCAT ACTGAGATCT TTCCGTC

ug338

1 GAATTCTGGA GTTCCGCAGC TTGACCCACA CATTTGCCAG AGGTGAGAAA
51 GTGGCCGCTG AGGTCTTGCT GCTTCCCTGA GGCCGGTTCC TTCACGAGAG
101 AGCAGTAGTC GTTCTCAAGG TGGGGAGCGA AGGGGCTGCT GGCCCCGCTG
151 CGGCHCGCCA CAGGACAGAC CATCGGAAGA GCTGTYVGCC TCAGAGTTAA
201 GGGATGGCTT CTTGGGGCCC AGGCGGGAG

ug339

1 GAATTCATGG AACTACTCCA TCAATAGGCA AAGTGGCATT GATTTTATC
51 TCDATT

ug340

1 GAATTCCCAA AAGTGAAATA AGATGTCCAC ATTAAAAAAA TAAAGCCTAC
51 AAAAAAGTTC TGGAGCTAAA AAAATTATTC ATATGGCACA ATGTGATCTC
101 CAAGGTCCAA AATATTGAAA TGAGATCCGT GTAAGCATCC TGTCTGCTTT
151 TCAATGCAGC ACTAACTTTA CTGAGGTGAA ATCACAATTT AGTTCTTCAG
201 TCAACAAGTG GACACAAATG TTTTCTACA GTTATTAAAA ACAGGAGATC
251 AAGTTGAATG TDCCGAAATG ATTTCTTCAG TTGGATATTT TAGTATCTTG
301 AAGAAAATTA GTDAAGGGAT ACTTGTCGTT TCCATAGCYT GATAGACCAA
351 AACAAA

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ug341

1 GAATTCGCAC GCAAGCCCTA TCATACCACA GGAAACAGAG CACAAGAGAA
51 GTGTACAGTG GAGTGGGCAT SCGTAAAAAG ATGGTGTTC CAAGCAGAAG
101 TATATGCAA GRCTTTGCTA AACAGAACT GAACAGATAG CTTATACCAT
151 TAGATCAGAT TTTGAAGGGT TTAGGATGC ATGGAGATGG GCCACTAGGG
201 TTGACTATGA CCGAGGTCAG GTATTATGTG TTTACTTAAG ATTCCTTTCT
251 DSCGATGAGA ATGCATTCTG ACTCCAGCAT GCACCAGGTG CGCTTDCTDC
301 CCAGADCTGG GATTGCCAAT TCCAAGTGTK CCTAGCCTTG AGGATTGACC
351 TTGGSCCTGA GCATAGCCTG T

ug342

1 GAATTCWCGC TCWCHCTTCC TCAGTHCTTT CAAAGTCACA GGAACCTGGC
51 AATTTCCCTT TTCATTCCCC CTCCCACTTC CCTGGTAAGT HCCTCTCGGA
101 ATATCACAAG AGTTTCCAGA HCTGGTTCGG ATCACCTTTC CTGTAATTAA
151 TTAATTATGA GAAGAAACAG ACAGTACAAT AGATCTGATA AGATGTAGCA
201 TTCTTGTTAA GATTAAACAA TACATTTATC MAAYHGTATC AGAACAAATT
251 AACATAATAT TTAATCTTAT MMVCACCAAT AACCACAGGA ATTGTTATTT
301 CCAARDGGAG AGTCTTGTTA GAA

ug343

1 GAATTCTGTT TATGTAGCAT ATAAATAATA TAAAATTAAA CATAAAGAAC
51 TTAGTATTTT ATTGTAAGTG AAAAAAATAA AACTAGAATT GTCATATTAA
101 TGGTCCTGCA TATCAAATAA TTTTCACCAA GTCTCTGTAA TACATACTAA
151 CAGCATTAGA CACAGGGAAA CAATCAAGAT GATCAAATTC ATAACAAAAA
201 ACTGTATTGC TAACATTGTA ACATTTTATA AGAGTTAATT GAATAGTGAC
251 CAAAGTTCTC CCTTAACCCT TCCATCTGAT GACTGTGAGA TTGTTTTTTA
301 AGTTTGCTGT AAAAGAAGAC TTGCCTTGGC CWMCTATACC TYCAACCAAT
351 CTATAGAATT CAGAGGACCA GGAGGGTAC

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ug344

1 GAATTCCAAC AGTTTTGAAA GTAATTAAGA GAAATCACAA ACAGTTAATT
51 CTGTCCTCCA AAT

ug345

1 GAATTCTTTT AATACAAGTT ATTGTCGAAG AAATCACTGG AGGGAGAAAA
51 AAAAAATCTT CTTCWCCCA CAACACTTAA AAAGTAACAC ATGAAAGGAG
101 AAATCTGGTA ACAAGCAGGA TAGACTTCAT TCTAGTAAAA AGAAATAATG
151 TTTCAAACA CAATCTAAAG CAGGCTTCCA TTAGCAAAGA AAT

ug346

1 GAATTCGACG GCCGTTTTTT TTTTTTTTTT TTTTTTTTC TTTCTTTTC
51 TTTCTCTTC TCTTCTCTS TCTTCTCTC TCTTCTTTC TTTCTTTCTT
101 TCTTCTTTT TTGGTTTTTT TCGAGACAGG GTTCTTTGT ATAGCCTGGC
151 TGTCTGGACT CACTCTGTAG ACAGGBGGCT CAAACTCAGA AATCTGCTGC
201 TCTGCTGTTG AGTGCTGGGA TAAAGGCGTG CCACACACTC GGCTGAGAYC
251 TG

ug347

1 GAATTCGGAC AACAACTCCC ACAAGAAGAA CATCTTCGAG AAACCCTTCA
51 GGCTCGCTAC GTGCGTGTCC TTCCAGTSTC CTGGCATAAC CGCATCACCC
101 TGC

ug348

1 GAATTCCAGA TCCCATTACA GATGGTTGTG AGCCACCATG TGGTTGTTGG
51 AAATTGAACT CAGGACCTCT GGAAGAGCAG TCAGTGCTCT TAACCATCTC
101 CCCAGCCCAT GTCTTACATG TTTTTRTTAAA TGAGGAACGA TAGTGTGGTS
151 ATT

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ug349

1 GCGTTAGGCG AGCAGCGCCT GCCTGAAGCT GCGGGCATT CCGATCAGAA
51 ATGAGCGCCA GTCGTCGTCG GCTCTCGGCA CCGAATGCGT ATGATTCTCC
101 GCCAGCATGG CTTCGGCCAG TCGTTCGAGC AGCGCCCGCT TGTTCCTGAA
151 GTGCCAGTAA AGCGCCGGCT GCTGAACCCC CAACCGTTTCG CCAGTTTGCG
201 TGTGTCAGA CCGTCTCCCG ACCTCGTTCA ACAGGTCCAG GGCBBACGG
251 ATCACTGTAT TCGGCTGCAA CTTTGTCATG CTTGACACTT TATCACTGAT
301 AAACATAATA TGTCACCAA CTTATCAGTG ATAAAGA

ug350

1 GAATTCTTTT TTTTTTTTTT TTTAAAGACT TATTATTAT TAAATATAAG
51 GAACTGTAA CTGTCTTTAG ACACACCAGA AGAGGGTGTC AGATCTCATT
101 ACCAATGGTT GTGAGCCACC ATGTGGTTGC TGGGATTGA ACTCAGTATC
151 TTCAGAAGAG CAGTCAGTGC TCTTAACCAC TGAGCCAACT CTCCAGCCCC
201 CCAAAGACA GCCAGCATT CACTGAGCTT AGAGCCAGCC TGGTTATGTA
251 TCAAGTCTGT GTCTCAAAT GAAAAGTGAA A

ug351

1 GAATTCTTTC AACTCCAATC TCTGACTTTR CTCATTGCTT CTCAGCTTCA
51 AAATGCAAGC ACAGACTACA GCTAACTGAG AACTGGCTCC ACTCAGGGGC
101 TATGGCGCAG GAGCCCTGAC GCATGCCTCC GCVGCTGCCC CAGGCTCTTA
151 CCAGCAGGTA GTGCTGGCGG TGTTTCAGCTG CTGCCTCATG CTGGGCAGGC
201 TCTKCTGCCT GTGCAACATG TCTGACGGAA GTTAAGGCCT CCAGTCTAAC
251 AAGGTTTCTC AC

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ug352

1 GAATTCGTTT TTTTAAATGG CTTTTTGTA CATCGCTGCA GGAAGCGGGT
51 TTCTTTGTTT TCTTTTCTTT CTAAGAGAAG GTATCTCCCT GGTGCAATAG
101 CTCGGCACCG CCGGCGGGGG CCTCTCGACA CACCCCAGCC CTGGGCTCCT
151 CTGGCCTCCA AATCATTAG GATGGTGAGG GAGGATGGGA AGGAGGGGGG
201 AGGGGGACAG GTAAATCGCA TCTGCGCCCA CTTCTCTCTC TACCTCCTTT
251 TGGAGAACCA GCCAGCCTGG ACCACTTTCT CCATCTTAGG ACAACTTGAG
301 GCTCCTTGCT CTCATCTGTG CTTAGAGAA TTCCTTTCCC TCCHGGGTTC
351 TGTCTGGTTC TCAGCAGGGT TCCCAGGCCA CTGTGCAGTG GCATCTAGC

ug353

1 GAATTCGGGG GAGAAAGAGA GGGAGGGAGA AAGAGAGAGA GAGAGAGAGA
51 GAGATCTTGT TCTCCTGGCA CAATATTAAC TGTTTATAAT TAAGCTAAAA
101 ACTTGTTCTG GTATTTTATG ACATCAGGGA AATTCTTCC TCTCTAGGCA
151 GATTGCCAAA AACAACTAGA AGCTAAATGC CTGTGCCTTC TGCTTCTACG
201 ACACACCACT CCGTCTTGTT CAGTTTCAAC TAGCGTCGCT CTAAAAGGAC
251 AAAAACTTC TTGTTTTTCT AAATAAAACA TAAATGGCCC AGAATTTGAA
301 TTGCCGATCT TAAAATTTTA AGTGACTGAA GATTCTATTA ATTCTGGCAA
351 TAAATCATT AAAAACAAAA CAGGTTGCAT AAGACTTTTA AACAAATTCAT
401 TCACAGGCAT GAGAATTTAA GGTTTCTTTT AAAATATAAA ATGCTAAAC
451 AATAAGTCTA ACAGGAGAAT ATGAATAATA CMATATTCTA AGAAAAAAC
501 CCACAAAGAC AAACATGACA TTTCATTCAT AGCTCATTCA AATAAACCAA
551 GGATTAAACC TTAGTTTTAA CCTGTAAATT TTCCTTTTTR YTTTAGTATG
601 TCTGATGTCD CATGTACGRT ARCCAGAAGG CC

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ug354

1 GAATTCACCG GCTCGACGGC CGCTTTTTTT TTTTTTTTTT TACATAAAAA
51 GACTTTATTT GCAGGGGAGC AGGAATTAA TCAAACAAGC CAAATCCCAT
101 GTCGTCATCC GACTCCTCGG ACTCCTCCTT CTTCTCATCT TTCTTCTCCT
151 CTGCTGCAGC GGGGGCAGAA CCAGCAGCAG GTGCTGCAGA GCCAGGGGCA
201 GCAGAAACAG CCACAGCCCC ACCAGCAGGC AACTGGCCA GCTTGCCAAC
251 ACCCTGACGA TGACATCCTC AATGTTCTTT CCATTAGCT CACTGATGAC
301 CTTGTTGAGC CGATCATCGT CCGCTTCGAT GCCCACCTGT CTAGTATTTT
351 CTTGATGTCT TTGGCACTAG GAGAGG

ug355

1 GAATTCRGCC GCTTTTDRIT TTTTATTACG GTAAACAGGA ATATATTCAR
51 ATGCTAATRC CTCCTTTGAC CAGAAATGGA ACATGCTGAA GGATGAAGAC
101 AAGGATCTTT DVCCTTTGCT TGAGGTACCH GARCTGGTGA CGTTCAGTTA
151 TTCTAACAGT GTCATTAGT CACAGTCATG GCCTGAACCA GAATGTGTGT
201 GTGTGGTAAA AATATCTGTC TTCACAACAG TTTCTGGTGC RTTGTAGAAT
251 AGCACATAAC TGCTTTCTRC AGTTTGTDC TTAGACAGTAT AATGTATGTT
301 GGTCATATTT AACCCAAATC ATCTCTCCCT CTAACATTGC AACACCCC

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ug356

1 GAATTCGCAC TTTTGATGTG TCAATCCTCA CTATTGAGGA TGAATTTTT
51 GAGGTCAAAT CAACAGCTGG AGACACCCAC TTAGGTGGAG AGATTTTGAC
101 AACCGAATGG TCAATCATTT CATTGCTGAG TTCAAGCGAA AGCACAAGAA
151 AGACATCAGT GAGAACAAGA GAGCTGTCCG CCGTCTCCGC ACGGCCTGCG
201 AGCGGCCAAG CGCACCTCT CCTCCAGCAC CCAGGCCAGT ATTGAGATTG
251 ATTCTCTCTA TGAGGGAATT GACTTCTATA CCTCCATTAC CCGGGCTCGA
301 TTTGAGGAGT TGAATGCTGA CCTGTTCCGT GGCACACTGG ACCCTGTAGA
351 GAAGGCCCTT CGAGATGCCA AGCTGGACAA GTCACAGATC CATGATATTG
401 TCTTGGTGGG TGGTTCTACC AGAATYCCCA AGATTCAAAA CTTCTGCAAG
451 ACTTCTTCAA TGGAAAAG

ug357

1 GAATTCGTCT TCAACGGCTT CTGTAAATCT CGGTGACCCC ACAAGGCGTA
51 CTGAAGGAGA TTACTTATCG TACAGAGAGT TACATTCAAT GGGAAGAAGT
101 CCAGTCATGT CAGGATCACA GAGACCTCTT TCTGCACGAG CGTACAGCAT
151 CGATGGCCCA AATACATCCA GGCCTCAGAG TGCCCGTCCC TCTATTAATG
201 AAATACCAGA GAGAACTATG TCAGTTAGTG ATTTCAATTA CTCACGGACT
251 AGTCCTTCAA AAAGACCAAA TACAAGGGTC GGGTCTGAAC ATTCTCTGTT
301 AGATCCTCCA GGAAAAAGCA AGGTTCTCTA TGAAGGCGG GACAGTACTA
351 CGACACATTG AGGCCAAAAA GTTAGAAAAG G

ug358

1 GAATTCCTCG ACTCGAGCGG CCGCTTTTTT TTTTTTTTTT TTTTTTTTTT
51 TCCAAGCAAA CCAACACACT TTACTGTGGC GCAGGCTGCC TCAGACTGTT
101 ACTTATTTCA GCCCAAGAAC TAGAAGGACT TGACCAGCTT GGACAGGCAT
151 CTGCTCMGCT CCAGGCTTCC ACGAGTCCTG GCACAGAAGG GTTCTCTGAA
201 AAGTCTACCA CAGGAACTGT GTCTCGGCAC ATGCCAAGT

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ug359

1 GAATTCAATG AACATACAT TCAGAAGCTT TTCTCATTCT CTTGAACAAC
51 ACAAAGTGAA AAGTGATAAT AATGGTGCAG AAGGTGTAAC AGCTTTTTTC
101 TGTAATACAC AGGTA ACTCT CCTCCTAACA GTATTTGGTG AAGATGATCA
151 ATCTCAGGAT GTTATAAGAT TGC GTCAAGA TGTTAATGAT TATAACCGGA
201 GATTCTCAGG GCAGCCTAGA TCTGTAAGTA ATATTATAGC AGCTACAAAG
251 TCAGAGAGAG CCTTTATACT TTTTGTACAA TCAGATTTAT CAACCAGCTA
301 TTGAACTATG TAAAGTCTTA GTATGTVTCG ACTAAGTTTT AACCTTCATC
351 ATTGCCAGTH GCTAGTHHCC CAGAGAGCAG AGTTTATCTA T

ug360

1 GAATTCCCCG GCTCGAGCGG CCGCTTTTTT TTTAAGTAGA TTAGCTTGC
51 GGACCCCTG GTGTGACAGA GAAGGCCAG CAAAGTAAAA AGTAGCTAAA
101 AGCTGAGGCC TATGACCCCA AAGCCCTTGC TAACTTCCCC TTGCTAACTT
151 CCTCCTGACC AGAGGTCTCC TGC BGCCAGC AGGAATGAAG CACACTAGCC
201 TTAGAGGCAG GTCTGCGCTG TGGGTCTGTG GAAGCCTCCA GCCTTTCTCA
251 GCCTCCTGCT AAGG

ug361

1 GAATTCCTCG GTCAA ACTCC CCACCTGGCA CTGTCCCCGG AGCGGGTCCG
51 CCCCCGCAC GCGCGGGACG GACGCTTGB GCCAGAAGCG AGAGCCCCCTC
101 GGGGCTCGCC CCCCCGCTC ACCGGGTCAG TGAAAAACG ATGAGAGTAG
151 TGGTATTTC CCGGCGGCCC GCGAGGCBGG CGTGCCCCGA CCCCACGCG
201 AGGACGGGGC CCCGGCCTCC CACTTATTCT ACCCTCTCAT GTCTCTTAC
251 CGTGCCAGAC TAGAGT

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ug362

1 GCGGTAGGCG AGCAGCGCCT GCCTGAAGCT GCGGGCATT CCGATCAGAA
51 ATGAGCGCCA GTCGTCGTCG GCTCTCGGCA CCGAATGCGT ATGATTCTCC
101 GCCAGCATGG CTTCGGCCAG TCGTCGAGC AGCGCCCGCT TGTTCTGAA
151 GTGCCAGTAA AGCGCCGGCT GCTGAACCCC CAACCGTTTCG CCAGTTTGCG
201 TGTCGTCAGA CCGTCTACCC GACCTCGTTC AACAGGTCCA GGGCGCACGG
251 ATCACTGTAT THGGCTGCAA CTTTGTCATG CTTGACACTT TACTACTGAT
301 AAACATAATA TGTCCACCAA CTTATCAGTG ATAAAGAATC C

ug363

1 GAATTCATTT TATTTGAAGC AACCTTAATC CCAACACTTA TTATTATTAC
51 CCGATGAGGG AACCAAAGT AACGCCTAAA CGCAGGGATT TATTTCTAT
101 TTTATACCCT AATCGGTTCT ATTHCACTGC TAATTGCCCT CATCTTAATC
151 CAAAACCATG TAGGAACCCT AAACCTCATA ATTTTATCAT TCACAACACA
201 CACCTTAGAC GCTTCATGAT CTAACAACTT ACTATGGTTG GCATGCATAA
251 TAGCATTTCT TATTAAAATA CCATTATATG GAGTTCACCT ATGACTACCA
301 AAAGCCCATG TTGAAGCTCC AATTGCTGGG TCAATAATTC TAGCAGCTAT
351 TCTTCTAAAA TTAGGTAGT

ug364

1 GAATTCCACA GATGTACAAG CTAAAGATT TGAAAGGGAA ACCTGAGAGT
51 GAACAGAGGA AAGAAAGAAA GAAGGAAAGG AAGAAAGGAA GAAAGGAAGA
101 AAGGAAGAAA GGAAGAAAGA AAGAAAGAAA GAAAGAAAGA AAGAAAGAAA
151 GAAAGAAAGA AAGAAAGAAA GAAAGAAAGA GMGAGCGAGC ATCATTTTCC
201 AAGTTGGTTT

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ug365

1 GAATTCGCTT GCTGTGACTG GTCCACAATT CCTTTCTTGT CATCACCAGC
51 AGCAACCTCG GCCAAGTAAC GGTAGTAGTC ACCCTTCATT TTCAAATAGA
101 AGACTTTGCT TTCTGGTTGC GAASATTGGG GATCAAGAAC TTTTCCAAAA
151 GAGACAGTAC ATCGTTGCAG ATGTCACGCA GCTCCGTCTC GATCTTCTCT
201 CTGTATTCTC GAGCCATCTC TGCTTTTTTCT CAGCACCTTH CGTCTTCTGC
251 TCAATACTTG AGACGACCCT CCACGATGAC CTACGGGCTC CTACAACGTT
301 TTTATAAGCA ACAGAGAGAA GGTTTCTCTC CTCATWCGAC AGCTCAGCTC
351 CCTCTCAGTG ACAGACTTYA TKCAGGCTGC CATGTCATCA TATCGC

ug366

1 GAATTCGCCG CTTTTTTTTT TTTTTTTTCC CACGGAAGT ATATATCAG
51 ATGGAGAGAA CAATGTCTAT GGCTGCACAA ATCCAGAAAT ACTAGAAGAA
101 AACTAGCCGA AACTTCTTGC TAAATGTGTA ATGTAAGTAT TGATTACTGA
151 CATCCTTCCG TTAAATCCT ATGTGTTGAA AATGCAATCT TGGGCAGCCT
201 GGGGACAAAT GTTCAGTGGA TGCTTCAAGT TGAAATCTGC TGCATTGGCA
251 TGAGGTTTGG TGAAMCTGCM AAGTCACAGC CTGTGC

ug367

1 GAATTCAAGA CGTAGGCAGT ACACAGCAGC AGTTCCTGAG TGTCCCTGTT
51 TGTCACAACC TGGAGGATGG TGAAGTTCTC CAGGACACTG TTCATCATGT
101 AGCGTTCAGG CAGCTGACGG AGCTTGTGCA GGAAATTAAC CAGGTACTCA
151 CACATGGGAG AGCGCASAGA CGGTACACAA AGCGCCCGTC CTCCAGCTGG

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ug368

1 GAATTCTTTC TTTCTTTCTT CTCTTCTTT TTCTTCTTCT CCTTCTTCAC
51 ATTTTACAGT ATGCATATCT GTCTTAAGTA CAAATAGAAT TAAGTACAAA
101 CAGTATAGGA ATAAAATTGG AATTAAAAGT TTGADCTCTT ACATGGCTCA
151 GTTGGTAGTG CTGTCTGTGC AAGCATATAC TAAGCCAGAT ATGGTGGTGT
201 GTGATTGTCA TCTCAGCATT AAGGGKGGCA GAGACAGGTG TDCCTTGGG
251 TTWCSGCTAG TTAGTCGAGC CAGAATTGCA AGCTCCA

ug368

1 GAATTCTTTC TTTCTTTCTT CTCTTCTTT TTCTTCTTCT CCTTCTTCAC
51 ATTTTACAGT ATGCATATCT GTCTTAAGTA CAAATAGAAT TAAGTACAAA
101 CAGTATAGGA ATAAAATTGG AATTAAAAGT TTGADCTCTT ACATGGCTCA
151 GTTGGTAGTG CTGTCTGTGC AAGCATATAC TAAGCCAGAT ATGGTGGTGT
201 GTGATTGTCA TCTCAGCATT AAGGGKGGCA GAGACAGGTG TDCCTTGGG
251 TTWCSGCTAG TTAGTCGAGC CAGAATTGCA AGCTCCA

ug369

1 GAATTCCCAA ATGAACTCTC ACTTCTTAGG GCTTGAGTTC CAGAAGTACT
51 GGGGAAAGAC TAAAGCCACA GAAGTGTTGA TGGGGGACTG GGGAGATTCC
101 TCAATGGGAG AATTCAGGTC CCCAGGTCCC GGA CT TGGA ATGTGCCTTT
151 TAACTGAGAT CCTTGGGGCT GGTGAGACAG AATGTCAGGC TCCCGCTGAC
201 CCAGTGGTTC TCAATCTTCC TGTGCTGTGA CCCTTAAATA TAGTTCACAT
251 TGTAGTGACC CCAGCCATGA AATTTTHGTT GCTATTTTAT AACCGTGAGT
301 TTGTTGTTAT GAACTGTAAT GTAAATTTGT TTTTCAATGG GTCACAGGGC
351 GACCCCCCAA AGTGGTGGCG GCACAGGTTG AGAACCACTG GG

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ug370

1 GAATTCGCGG CCGCTTTTTT TTTTTTTTTT TTTTTTATTG TCAAGTATTT
51 ATTTATACCT ACAAAGAAA ACAAGATGGT ATCAAAGGA CAATTTACAA
101 ACTAAGAATA GTAGTAACAT AGCTCTGAGC ATCCTGTGCA TAACATCACA
151 CCTACAATTC AAGTCTCAAT GACAGGAATG TGTGGAGAGA CCAGCAAGGG
201 CGTTAGCAGA GCACTGATCC CAAGCAAAAG CCACCAACCT TTTTATAGATG
251 AGAAGTCTGC ACAATGGATG GTTAGGGAGA AGCAGCCCAC AGCCTAACAC
301 CTAGBCTTCC TAAGTGAGTA ACCATAACGG CATTAACCCA GCTGGAAGGG
351 TTTGCTGCAC CTGTGCTGAC AAAGGACAGA CA

ug371

1 GAATTCCCCG GCCCTGGCAC AGAGGACTAG GTGTGAGAGT GTGAGGTTCC
51 CACCCCCACC TTTCTGCGC BGCTCCCTCC CCCCACACA GCCACCCTCC
101 GTGCTACCB BCTGGGAGCT TGTTGCTTCT TGTTCAAGGB GCGTAATTBC
151 GAACTCTCT AGGGCGCAGG GAGCCCTGAT TTACATATTT CTCCBGAGTB
201 CBTTCCCTGG TAGGGATTCT CTCTTBGGTT CTGACACCAG GGACAAGAGT
251 BCARACTGGA AAAA

ug372

1 GAATTCAGAA CCAGAAGCCA AAARCCAATA AAAACAAAAA TACTAMCAAG
51 TCACTTWCCA GCTTTAAATG TTAAATATT GCATGGATCA ATTTAGAAG
101 GGCATTGTAT GTAAGGCATA CTGTRGCATT TCAGTCACCA AAAGAAACAA
151 TCTTCCTAAA TACTAGCTT CTAGGCTGCD CTTCTCAATC ATGTGTCTGT
201 CTGTCTGTCT GTCTGTCTGT CTGTCTGTCG TAGCCCAGAC TGA CTGACCT
251 TTGTTTCCAC CTTCCAAGTA CTGGTATGAT AAGTGTRCWG RATTATCCTG
301 GCTTAGTCTT TGAAAGTAGA ACHGAGCAAT AGGGAAC

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ug373

1 GAATTCAGCT CACGGAAGAT GTTGCTAAAT TGGAAAGAGA AATGGAGCAA
51 AAACACAGGG AAGAWCTGGA GCAATTGAAG CAATTGACTT TCAAGGACAG
101 TAAGATAGAT TCTGTTGCTG TTAACATTTC AAACCTGGTA CTTGAGAATC
151 AKCCACCTCG GATTTCAAAA GCACAAAAGA GACGGGAAAA GAWGKCTGCA
201 TTGGAAAAGG AGCGGGAAGA AAGGATAGCA GWGKCTGAAA TTGAGAACTT
251 ATCTGGAGCC AGACACCTTG AGAGTGAAAA

ug374

1 GAATTCGTTT TATTGGGAAA TGTATGCAAT TCACTTTCAG TTTTGTAGAA
51 CACCTAGCAA GCATCCAAGA AGACAGCACA CACAGTTTCA AAGGAACAAG
101 GACAGACAAA AGGGCTGGTG GCCATCCCAG GGACATTGCC TTGAAAAGTA
151 AGTAACTGG GTGTCATAAA TAAGACTTTC TTACTTTATA AGAAGGAAGA
201 ATCAAGATCC TGTTTTGATG TGTATTAAAT ATAAAATATA AAATACTCTC
251 TGACCCAGAC GAGGGTGGRV GAAATCCTCC ATCCAACACC TCAAGTTTCA
301 TGCAATAAAA TCCAGAGGTC TGTGAATCC GCCTYTCGAT YCATGTACTG
351 CCTGTACTYC CTCTTTTGAG ACACGTTGAT GGCATAGGCA TTACAGAGCC
401 GTCTACCT

ug375

1 GCGTAGGCGA GCAGCGCCTG CCTGAAGCTG CGGGCATTCC CGATCAGAAA
51 TGAGCGCCAG TCGTCGTCGG CTCTCGGCAC CGAATGCGTA TGATTCTCCG
101 CCAGCATGGC TTCGGCCAGT GCGTCGAGCA GCGCCCGCTT GTTCCTGAAG
151 TGCCAGTAAA GCGCCGGCTG CTGAACCCCC AACCGTTCCG CCAGTTTGCG
201 TGTCGTCAGA CCGTCTACCC GACCTCGTTC AACAGGTCCA GGGCGGC

168/472

ug376

1 GAATTCTTCA TGTGTAAGCA ATACCTACTG GTGATGTCGG ATGCCCTGGA
51 GCTGGAGTTA TCGGCATTG TGATGATCCT ATTTGTAGGC ACAGGGAACA
101 AACTTCTGCA AGAGAAGAAA AGACTCTTAA CTGCTGAGCC ATCTCTCAGG
151 CCCCCAACCT CTCCATTTTC TGCTAATTAA ACCTTTCCCT HMCTCAGCCT
201 TGATTCATGC CCATAATTTA CCTCGACACA TTTCATTCTC AAAGAAATAC
251 CATTACTCCT TAGGGATTGT CTCTTGGATC CTTCTGAGAT TGATCGTTAT
301 GAATGTAAAA GCACGGGGGG GGGGGGGCAG AAATCACAAC TGTAATTCA
351 CATCCTACCT CTCGTGCCTG GAAT

ug377

1 GAATTCCTCC TACAACTTCA TTAAGTGGT ACTCCTTATT ATCAACATT
51 CCCTGCGACT TCTTACAATT GGCATACTCC TCAAGAATGG CATCGACATT
101 CTTTTTAGCA GGGAGCTGGA ACAACTGCTT CTGCCTCGTA ACCAAGTCCC
151 AGTCCTCCAC CAGCCACGGT TTTAATTCTT CAGGGATCTT CACCTTCACC
201 TCCATCCTAC TCTTGAATGC CTCCGCTCTC CACAGTGGGG TCAGCCCGTG
251 CCCTTTTCTT CCGAGGGGGC TGGGGGACTT CACTGGTACH GCCTCCGTCT
301 CCGTTGCCAG GAGCCTTCCT TGTCTHCHG GTCTTHVGCA CAGAACCGGA
351 AGGARGGTTC TCAGCAGAGC GAGCCTCCCC A

ug378

1 GAATTCGCTT GCTGGAGAGA GAGCACTCCG CCGGGGGTCG GTGAAGTATC
51 CCAAGATGGC TGGGCGTAAA CTTGCTCTAA AAACCATTGA TGGGTATCTT
101 TTGTGGAGGT CATGCCCCAW AACCAGAAGG CAATGGAAAT VCCCTGAAGT
151 CCTGGAATGA GACCTTCCAC CCAGGTTGGC TAGTCTGTCT

169/472

ug379

1 GAATTCGCAG CTTGAGGCAC AGACGAACTT CACCAAGAGA GAACTGCAAG
51 TCTTGTACMG GGGATTCAAA AACGAGTGCC CTAGCGGTGT GTCAATGAA
101 GAWACATTCA AGCAGATCTA CGCTCAGTTT TTMMCTCACG GAGATGCCAG
151 CACATATGCA CATTAMCTCT TCAATCTTCG ACACACCCAG A

ug380

1 GAATTCCGGC TCGAGCGGSC GCTTTTTTTT TTTTTTTTG GCTGTGTACA
51 CAGGGTGCTT TATTCTCCAC AGAGTGATAC ATGCTAAGGT GGGCTGGGCT
101 TGGYCGATGT BCCCATATGT ACAGAACTGA ATAAAGTGGG TCTCTGAGAG
151 GTCTGAGTCG CTTGGTGTG AAARGGACAT GGAAGGAGG AGGCTGTAA
201 GACCAGAGTT GTTAGTCTGT GCTGTCTGAC TGGATGTAGG GAGGTAGGCA
251 GC

ug381

1 GAATCCCCG GCTCGAGCGG CCGCTTTTTT TTTTTTTTTT TTATCTTTCA
51 AGCTTTTATT TAAGTGCACT GACTTAAGAA TGATTAAAT CTTGTAAAA
101 GCAGCCACAT CCATGGACTG TACGTAGTCC TCAAAGCAG TAATTTGCTC
151 TTCCAGCATA TCCGTTCCAA CTTATCATC TTCAACTACA CACTGTATTT
201 GAAGCTTTTT AATTCCATAT CCCACTGGAA CCAATTTAGA GGAGCCCCAC
251 ACCAGGGCAT CTGCTTGAAT GCTTCGGACA CACTCCTCTA GTTTTGTCAT
301 GTCCGTCTCA TCATCCCAAG GCTTCACGTC TAGTAGGATT GGAAGACTTC
351 GCAACAACTG CAGGCTTTTT AGCTTTCTT

170/472

ug382

1 GAATTCCTGA GAGCAGGTCC TG TAGAGCCT GGCGGACAGC ATTACACTCT
51 GCCACAATGC CTCCCGACGG TCATCACGTG TGCAGGATGA GTCAGCCATC
101 AGGGCAGCCC CACTAATAAT GCTTTCCAGG CGCTCCTCCA GGGACGGCCT
151 AAAGCGCTCC TYYTGAAGCT CAAGKKGTCC ACAATGATTT GTTTATCAAA
201 GTTGTTGAGA GCGTATCCAG CTCTCCGCCA CTGCCACCCT GGTGCTGGGC
251 AGCATCATCT GATGCAGTMG CCTGGGCTGC ATTAGAAATT TCCTGT

ug383

1 GAATTCTTCA GAACTAAAAA AAATATTTCA TTTCATTCTG AATAAAAAAC
51 AGAACAGACA GAACTCTTGT AAATTCTGAA AACAATGTCTG TCGCTACGGA
101 AAATTTACACA GAAATCATCA GGGGGTGTGG GGACCAAGGT GCCTGCCCTG
151 CCACGAGCGC CACCTATCTG CAGTCCCAGA GGAGGCTTTT AGGGACCAGC
201 ACAGGTGGTG GCAGAGCCTG AATCAAGCTC AGGACGCAGC TTCTACCTGC
251 TGCACCAAGA CCCGGTGGCC CAGAGGGCAG CCTAGGGTCT YCAGGA

ug384

1 GAATTCCCAT CAGAAAAAAA AAAAACTTT GCAGCCAGCT CTA CTTGAAA
51 GCATGGAGAT GTGAATAAAG ATGCCTAGGC TTGCTAGTGT GATTAGCCAT
101 CTCCTGACCT GGAAATAAGA CCCAAAAGGC AAAACAAGAA TAAACCTGA
151 CAGACACCTC CTATTTACAT CCAGCTATGT ACAATTCAAT AAATTAAAGT
201 TTAAC TTTCT GAGCAGTCAT ATTCCACCTA TTTACAAGAG ATATCAAATA
251 ATTACATAAA TCCTTTGTCC AATGTCGTGT BTCKCTTTA TTATTATCT

171/472

ug385

1 GAATTCCGCG GCCTGGGCCT AGTGGCTTAA CAGTAGCGAC AGCAGCAGCG
51 GCGGCGGCGG CGGCAGCSAC TTCCCGTGGC GAGCACAGGC CCGGAAGCCC
101 GCACAGGCGA GTAGAGAAAA TGGCAGACGA TATTGATATT GAAGCCATGC
151 TTGAGGCCCC TTACAAGAAG GTGAGAAAAC ACGCTAGTGA GGCTTTAATA
201 TATTTCTTAA TTTAGCATT TTCACGAAAC TWCTGCTGAA ATGTAACTA
251 ACCTTC

ug386

1 GCGTAGGCGA GCAGCGCCTG CCTGAAGCTG CGGGCATTCC CGATCAGAAA
51 TGAGCGCCAG TCGTCGTCGG CTCTCGGCAC CGAATGCGTA TGATTCTCCG
101 CCAGCATGGC TTCGGCCAGT GCGTCGAGCD GCBCCCGCTT GTTCCTGAAG
151 TGCCAGTAAA GCBCCGGCTG CTGAACCCCC AACCGTTCBC CAGTTTGCTG
201 TGTCAGACCG TCTCCCGACC TCGTTCAACA GGTCCAGG

ug387

1 GAATTCTTTG CTACAAGCTG GGACAGCTGC AAGAGGAGTG GCAGAGCAGG
51 CTCCCGTTGT CTCTCAAGTC TTTTCCCCT GACTAATTGG AATTCATAGG
101 GGTAATTTAT AGAGGGTGTG GGAAGTACAT TTTGTTGCAA CCTGACAGTG
151 ACTGTGAGTT CCTCATTAAC CACCATACAT GGGCTCTGTT CTAAGTCTGC
201 TGTTGTATCA ACTGTCTAAT TGTCTAATTT GTCTAATTTA GTCTTTAGTG
251 TTCTTGAAGG ATTTAGGTAC CAGTGTACCA TTTAGCAAAT AAGCAAACCTG
301 AGGCACSAAG GGTAAAGACT GCTTAGGAAA CCATAGGCAA TGAGTGGT

172/472

ug388

1 GAATTCGCTT TTTCTTGTGT GAACAGTAGT GGTGAGGCCT ATGTTTTTAT
51 GTGGCTTTAG AGAAAACTTC AGTCTTCAAW GAACTCTTCT AATTAGTTCC
101 TTCTTAGAAA AAGTTATGCG TTAATTTGTT TCAAAATATT TAGGCATTCT
151 TTGAATTATA AACTTGTGAT GCAGGGATTT ATGAATGAGA CGTTCACATG
201 TGAAGATGAC TCACTAWGC ATCTGTGTAA GCAGAATAAG A

ug389

1 GCGCGGATTC TTTATCACTG ATAAGTTGGT GGACATATTA TGTTTATCAG
51 TGATAAAGTG TCAAGCATGA CAAAGTTGCA GCCGAATACA GTDATCCGTG
101 CCGCCCTGGA CCTGTTGAAC SAGGTCGGCG TAGACGGTCT GACGACACGC
151 AAACTGGCGG AACGGTTGGG GGTTTCAGCAG CCGGCGCTTT ACTGGCACTT
201 CAGGAACCAG CGGGCGCTGC TCGACBCACT GGCCGAAGCC ATBCTGGCGG
251 AGAATCATAC CCATTCGGTG CCGAGAGCCG ACGACGACTG GCGCCCATTG
301 TGATCGGGAA TTCCCCCAGC TTHAGGCAG

ug390

1 GAATTCCGCG GCCTGGGCCT AGTGGCTTAA CAGTAGCGAC AGCAGCAGCG
51 GCGGCGGCDG CGGCAGCSAC TTCCCGTGGC GAGCACAGGC CCGGAAGCCG
101 CACAGGCGAG TAGAGAAAAT GGCAGACGAT ATTGATATTG AAGCCATGGC
151 TTGAGGGCCC CTTACAAGAA GGTGAGAAAA ACACGCTAGK GAGCTTTAAT
201 ATATTTCTTA ATTTAGCATT ATTCACGAAA CTHCTGCTGA AATGTAACT
251 AACCTTCCCG G

173/472

ug391

1 GAATTCGTTA GCGGCGGCGG CGGGAATCCA GCGGCTGGCT GGCTGGCGAC
51 TAGGCCTCTT GCAGAGAATC CGGCGGGAAT CTGAGCCATC CGAGCCGCCA
101 CCATGACGGT GGGCAAGAGC AGCAAGATGC TGCAGCACAT TGA CTACAGG
151 ATGAGGTGCA TCCTGCVGGA CDGCCGTATC TTCATCGGGA CCTTCAAAGC
201 CTTTGACAAG CACATGAACT TGATCCTGTG TGA CTGTGAT GAGTTCAGGA
251 AGATCAAGCC AAAGAACTCC AAACAAGCAG AAAGGGAAGA GAAGCGAGTC
301 CTTGGTCTGG TGTYCCT

ug392

1 GAATTCGGGG GATATAGCTC AGTGGTTAAG AGCACTGACT GTTCTCTAGA
51 GGTCTGAGT TCAAATTCCA GCAACTATAA CAGTGGTTCA CAGCCATCTG
101 TAATAGGATC CAATGCCCCG TTTTGGTGTG TCTGAAGACA GTGACAGTGG
151 ACTCATATAC ATAAAATAAT TCTTAAAAGA ATGTTAAAAA AAAAGAACAT
201 TTATTTTAAA TAAATAAATC AAATTAAAGA ATTATTTTAT CATTATTAAC
251 TGTGTATATG TGCACGTGAA TGGAGATGCC TATAAAGGCT CATTGGAACC
301 CGTGGAGCGG GAGTCTTAGA CAACTGTGAG CTGCCATGTA GGCACTGGGA
351 AGTGAAC

ug393

1 GAATTCCTTT GAAACAAAAC GACTTATTTA CGGTTACTTT CCTTATAAGA
51 AGGAACAGCA GTCTCTAATA ATCACCATAA AGTGAAGTGC TGTGTCCCTA
101 ATTTTCTCCA GTTTCTTCTA CCCTAAGACA TGTTTTTTGG AGACCACAAT
151 GACTTTTGTA TTTAATAATG TAAGTTTCTA TTCAGATAAA ATGATCCAGT
201 TTCAAGACAG GTGAGAAGCC CTATTTAAGT CCAATGGCTC ACAATATGGA
251 CTGAGAACAG GAGACATTTT YCCTYCAAAG

174/472

ug394

1 GAATTCGCCT TGTCCCCACA CACGACACAC TGCTCGTCTT TGTCCAGGTA
51 ACTAGGGATA TACCCTGACA TGCTGCTTTT CAGGGGACAT TGGCCGTTCT
101 TTCTTTTTTCG CTTTCCATCT GGTGACCTGG CACTGTTCTC CTCTGGGTCT
151 GACCCACACT CCACCTTGCT TGGCTTCTGT TCCATTCACT TCAATTCCAT
201 CCAGGATGCT CTCCAGCRCG CCAAGAGACT GGGGTGGGCA CACTGGCCCC
251 CC

ug395

1 GAATTCCTGA GCSGCACTTC ATCGATGATG TACAGATGCC CCTGGGTCTG
51 GTGGTGGCTT CCTGCAGCCA GACAGTCACC TGTATCCCCA ACTGCACTTG
101 GCGAAACTAT AAGGCGGAAG TGCGCTTCGA GCCACGCCCC AAGCCCGCCG
151 TTTCCTCAGC ACCACCATCG TCTACCCCAA GTACCCCAA ACCGTCTACA
201 CCACCACTCT GGATTACAAC TGCCACAAGA AGCTGAGGAG GTTTCTGTCC
251 AGTGTGGAGC CAGGCCACGG AGTTCCTGGG CGCGATGGGC TAGCCGATGA
301 ATGTTGACTC AGCTAGCTTG AGGTTGGACC AGCTGTTTAT AACTGCCCCT
351 GGTCCCCAGA CCACCCTGGA CAAGCTGGGT AGCATTGCTC TT

ug386

1 GCGTAGGCGA GCAGCGCCTG CCTGAAGCTG CGGGCATTCC CGATCAGAAA
51 TGAGCGCCAG TCGTCGTCGG CTCTCGGCAC CGAATGCGTA TGATTCTCCG
101 CCAGCATGGC TTCGGCCAGT GCGTCGAGCD GCBCCCGCTT GTTCCTGAAG
151 TGCCAGTAAA GCBCCGGCTG CTGAACCCCC AACCGTTCBC CAGTTTGCTG
201 TGTCAGACCG TCTCCCGACC TCGTTCAACA GGTCCAGG

175/472

ug397

1 GAATTCTTTC AAAGTATATA AATAGAAAAA CCCTAAATTG AACTGAACAG
51 GTTATTTAAT GAGCAGCAGT AATATATATA TATATATATA TACACATACA
101 CACACACACA CACACACATA CACACAAACA CACCAAATA CGACAGAAGA
151 AATAACAAAA ACAAAAACCA TTATAAAGC AGTAATATTA GGGAAAAAGT
201 CCAATAAGTA AATGTATAAG CAATAAGCAC CCAAGAAATT AAAAACA CTG
251 AAAAAACCTC TCAGAAAAGT TCTGTCGCGT TTGTGAACCT TTTTTTTTTT
301 TTTAATCAAA TCGACAACAA ACATTAA

ug398

1 GAATTCATTT TATCTAGGTG GACTCTGAAA AATGCTGTAG ATTTTCTTTT
51 TTTTATTAA TAACAACAAC AATAATATAA AAAGTCAAAC AACTGCAAA
101 CACACGTTTT CCACTCAGA AAACTTTTTA TAATTACCA GAAAGATTGG
151 TGA CTCTTTC CAAAGTGCTA AAAAAGTTGC CCAATTACAT TAAGCATTAC
201 TAAGTCATTC AAATACAGGT TCAGTGGCAA GCAATGAAAT GCACGGCATT
251 TGAGCAGTAA GCGTCTCCGC CCACCTCCCC TCTGCACGGT CCCACCAGAA
301 GACCTCTTAT TGCACAAGTG ACATGCTGTA AAACCTAGGG TCCTCGTKGT
351 CAGGGACACC CATT CAGGTT CTTAACCTGC

ug399

1 GAATTCGGAA AAGTGTCTTA CCCTAGATGT TTAGCCATGG TCAAATTAGA
51 CCCCTGACTT TCTGGAAACA AAATATGTAG TTACCTTTTA CTCTGACCAT
101 CATCTCCCAC CTGCCTAAGG TACTTAGTCC TTAGTTAGAC GGCCTCTATG

176/472

ug400

1 GAATTCAAAG GGAGAAAAC AAAAGTTCAT GACTGTGATG CCCAACATAA
51 CAGTTCTAGG GCAGGTATGC CAGGGAGCCC CTCCCATGCG CTGTCTCCCA
101 GCTCCCACCG CTGGGCAAGG ATCATTTTAA GGATGGGCAG TTCTGGGGCC
151 ACAGCACCTA GTTTTGCGGT TAAAGGGAGT GGGGGGAGGG GTGAACAGGA
201 AGACTGAGGA GGGCTCGGGG CATGGTGACA AAAAGAGCTA GGCTGCCCTA
251 CCCCCAACTC GATTGTCTAA CAGATAAAAT GCCTGGCCAT AAATATGAAC
301 ACTGATTGAC TGTTGAGGCA GATTGGATCT AAAACTTGCA GGSAGAACA
351 AAATKGCTGT GACACCCCTG AATTGGTAT CATAGTATCT GGGGTCCATG
401 TCCTAACTTA GGAGTGGATT CTGTCTAAAA AT

ug401

1 GAATTCTCGA TCTGGAACCA CCAGCCATGC TTCCTTAAGG ACTGGGAAAT
51 GCACGTCCAC TTCAAAGTCC ATGGCACAGG GAAGAAGAAC CTCCACGGAG
101 ATGGCATTGC CTTGTGGTAC ACCCGAGACC GCCTCGTACC AGGGCCTGTG
151 TTTGGAAGCA AAGACAACTT CCATGGTTTG GCCATCTTCC TGGGACACGT
201 ATCCCMATGA TGAAACCACT GRGCGTGTGT CCGGTACAT CTCGGTGATG
251 GTGAACAAGW GCTCTCCTGT CGTACGATCA TAGCAAAGAT GGACGATGGA
301 GTGAGTTGGC AGGCTGCACG CTG

177/472

ug402

1 GAATTCTTTG CAACCAACAT GAAATAAAAA AAAAAAAAAAT CTGTAAGCTT
51 AAAGTTTAAT GTGGTAAGCA CAGCATGGCT GAAGAACACC AACTCTCCCT
101 CCATGGGTGT CATTGCCTGT TGACCTGTGT GTGTCCTCCC TCACATGATG
151 GCAGGTCATG CGAGAGGCCC CTGGTTCCCA TGAATAAGGG GGGGGGGGTA
201 GGTGAATAGG GGAATTGACA ATGCAGGGCT CTTCCCTTTC CATCGTCTTT
251 GTCTGTAAC TTTAAGACAA AATTTGAAAT TTGAAGGTAG TCTCAAATCC
301 TGGAAGGTTT AAAATTTGAT ATAAGATAAA AAATGGAAAC TTTTATTAAA
351 ATAAGTACTT TAAACTAACA CTGAATAGTC TAGACCGTTA ACAGAAGGAA
401 AATCTTGTGC AA

ug403

1 GAATCCCCG GCTCGAGCGG CCGCTTTTTT TTTTTTCTAC TTGCTAAGCC
51 ATATCGAATC ATATGTTTTT CCCCCAAGC AATCAGTTTG CTTTCTCAGA
101 TTTTATTTGA AAATAAAGGT CCAGGTCATT TCTAGGACTT GGAGGATTTC
151 CTGTAAATCT ACTAAATTAG CACATCAATT AAATTGCCCT AACTCGCAGT
201 GTGGAAGACA ACAGTGTCCA TTGCTACGGG ATCCTGGGGG TTCTTGCAAT
251 ATAAGTGTTT CTCAATGCGT GGCTGTTTCC CAAATGTCCA CCTCCAAAAA
301 AGTCATCTGT AATCTTGTTA AATTAGAACA CTTCCAGTAT CTTTCTGACT
351 TTTACAGTTA AGGTTACAGA ATTGATTAW TTTATAGTCC ATGGCTCTCA
401 GAGCTTAACA CTAGCAAGAC CCCATGGCTA GAATGCCCCC AGGG

178/472

ug404

1 GAATTCCATA AAGCAAACAT TGAATAAAGA TGAAATAGCA CTGGTAAACT
51 TAAAAAATAA AAAACCAAAA ACGTTCTGTG CTCTTTTATG TGTAAGATGC
101 TAAATCAAG TATCTTTCCA GATGGCTCAC CACCTTGTAT TTATGCAGGG
151 TCTTACACTG AACCTAGAGT TTACAATTG GCCAGCTTGC TTTGTGGGAT
201 ACTATCTCTA CATTCCCAGT GCAAGGATTA CACTTGGSCT ACATATCCAC
251 CCATTTTAA GGGTCTGAAT CTGGTTTCA TTGTCTGCTA GTGCTTTATC
301 TATTGGACTA GCTCCCCAGC CACACAGTAA GGCATACTTT AAAAGGCTAT
351 CACACCTGTG ATCTAATTCT GATTTCACAG GCTAAGAAGC TATTAAATCC
401 AAGGAACCAT GAACTAGTTW AACAAAAATG GCT

ug406

1 GAATTCAAAA TTCATTCTA TATCCTCTC GATGTACACC ATCTCCACAG
51 ACTTAATTCT TTGAAGCCAG AGACCTGGTA GACTGTGACC CAGTAAAAAT
101 GGCTTTTGCC TTTATGTACA TCAGATCCGG GCAGGGCAGT GACATCAACT
151 AACACGGTGG TTTCTTACAA GAGCAACAGG GTGTGTGTGT GTAGGGTGGG
201 GACTCCTCTT CCAAAGATCC AGCCTTCAGA CTGACAGCTC TGCCCTTTCA
251 TCTCACCTCC TGAGCAATCA CACAGGTTTA CCAATGTTTA ACCACATACT
301 TAACAAGAAA GGGCAATCCT TCTGTAAACG TTCTCTGCTC AAGGTAACAA
351 ACATGCCCTT GGATTGGTTT CAGGAGATCA GCTAGGGACG ACCTGTGATC
401 CCCGTCTCCA TTCCTCCCAG

179/472

ug407

1 GAATTCTTTG GGGGGAAATC CCCAAATTTG GGCCCCATTC TAGAACTCTG
51 GGGAGTTCAA ATTCCAGAGA GAATATATAT TATATATGTC CCCCAAATTT
101 CCCATCCCTC CAAGCCCCAC GATCTCTAGA AGCCCCAAAT TTCTAATTCC
151 CAGGACTTCC CTACCCAAGT AACAGAATCT TCAAATCCCC AGGGAATCCA
201 AACTTAAGAC CCCAATCCCA AGCTCAGGAA ACCCAACTAC MAGGTCCTAA
251 GGCTGGGAGG AAGGACCCTG TTGCCAGGCT CTCAGGGCAT CTCAAACACT
301 GACTACCAGG CACCAGG

ug408

1 GAATTCCGAG CGGCCGTTTT TTTTTTTTTT TGTTTGT TTGTTTGT
51 GGTGTTGG GGGTTTTGT TTGTTTTTC GAGACAGGGT TTCTCTGTAT
101 AGCCCTGGCT GTCCTGGAAC TCAGAAATCC TCCTGCCTCT GCCTCCCAAG
151 TACTGGGATT AAAGGTATGT GCTGCCACCG CTCAGCATTT WCGTATATTC
201 TTATTCTTCA AAATAATCT CTACAGTCAA TTAGCAAGC TCAAAGATAG
251 CAATGATCCA AAGAAGTACA GACTAGAAGC AGATCAATTT

ug411

1 GAATTCAATT AATTAGAGGT AAAATTACAC ATGCAAACCT CCATAGACCG
51 GTGTAAAACC TTAACATTT ACTTAAATTA TAAGGAGAGG GTATCAAGCA
101 CATTAAAATA GCTTAAGACA CTTGCCTAG CCACACCCCC ACGGGACTCA
151 GCAGTGATAA ATATTAAGCA ATAAACGAAA GTTTGACTAA GTTATACCTC
201 TTAGGGTTGG TAAATTCGT GCCAGCCACC GCGGTCATAC GATTAACCCA
251 AACTAATTAT CTTGGCGTA AACGTGTCA ACTATAAATA AATAAATAGA
301 ATTAAAATCC AACTTATATG TGAAAATTCA TTGTTAGGAC CTAHVCAAT
351 AACGAAAGTA ATTCTAGTCA TTTATAATAC CGACACTAAG ACCCAA

180/472

ug412

1 GAATTCGGAA AGATGGTCCT TCTCAGGGCA TCCTGGGAAA CCTGGCTGAG
51 AAAGAAGGTC TGGTCTTTAA AGCTGTCAGC TGCTTGGAGA AGTTTTACGG
101 GGTTCCTGAC TTCAAATCGA TTTCTGAACA GCCCGTCAGG CTTCTTAGTG
151 TGCTTTTGCT CAAAGACTTC CTCATCCTCC AGTGAGGTCC TGGCGTAGTG
201 GCCAGTGGCA ACGGCATCTG CTCCAAGATT GTCCACAGCA TAGTGATAAA
251 AGCAACTGAA CTTGATATGC TTATTGCAGT TGATGTCGGG GTTTGAGTCC
301 TTCTTTCTCA TACCGKTCAA AAAGTCACTG AACACATCAT TCCAATACTC
351 CTTACATAG GACACCTGGT GGA

ug413

1 GAATTCCAGC ACCTGCGTAS CGCACGTGGT ACGTCCAGGC CACCTGTGCC
51 ACCCAAGGCA CAGGCCTGTA TGATGGGCTG GACTGGCTGT CCCACGAGCT
101 GTCAAAGCGC TAGCCAGCCA GGGGCAGGCC CCGTCTGCCC GGAAGCTCCC
151 GCGTGCATCC CGGGATGACC AGACTCCCGG ACTCCTCAGG CAGTGCCCTT
201 CCTCCCCACT CTCCTCCCC ACAGACAGGC CTCTGCTCCT GCGCCTGCCT
251 GCATGCTCTC TCTTGTCGTT GGAGCCTGGA GCCTTGCTCT CTGGGCACAG
301 AGGGCTCTGC TCTCCTGCCT GCTGGGACCT GTGGATGGGC TTCCTGGCCA
351 AGGCCCCCTC TTCCAGGGGA GGAGCAGGGA TCTGGATTTA ATTTGGTTTT
401 GGTTTTGGTT TTTTGATTTT

181/472

ug414

1 GAATTCCTCA GTTCTTCAA ATATACATGC TTTCAAGCAC CTCCCAGGTG
51 TAGTGGCCCG GAGTGAGTTT ACTTCAGATT ATTCATTACA ACTAGCTGTT
101 ATTTGTTTAT AATGCCCTTG TGATTGTACA CTTTGCATAT GTTACTCCTC
151 TTATTACTCA GAGTATAAAC TGTCTGATGT TCTGAATAAA GTTAGCTATT
201 GCATGAGACT TCAGTCTGTC TCATTTAATG GCTCCATTCT CCCAGGTCCC
251 ATCACAGTAA ACAATACATA ATGGATTTTT TTGTTTGTGTT GTTTGTTTTT
301 TTGTTTTTTC GAGACAGGGT TTCTCTGTAG CCCGGCTGTC CTGGAAGTCA
351 CTCTGTAGAC CAGGCTGTTT TCCAAGTCAG AAATCCGCCT GCCTCTGCCT
401 CCCAA

ug415

1 GAATTCGCTG TGGCACCCAT TCATGTAAGT TCCTCATTTC ATGTAAACAA
51 AGTTGCTGGT GACTGTGGCT CCTGACCTGT ACGTCTTATT TGGATTTTTT
101 TCTGATAGCC CATCTAAGAA CTTGAATTCA CACCCTTTGT GCAGGGCTGT
151 GGTGACTCC TGGTGAGGGG TGGAGTGATT TCTGTGACTT GAGAACGAAT
201 GGACACAAGT GCTAAGCAGT CTGCTGGGCT CTGCTGTCGT TTAGTGTCTT
251 GTTTCCCTG ACATGGTGTC CAATCCTGAA TTTATTTACT GGCTTTGGTT
301 CCATTGAAGT CTGAGTCCCG AGCGTCCATT TCTTCTTCAG AACCATCTGT
351 GTTTTCAATA ACTCTACGGC CCCAGCCCTTCTGGAAGGA ACAAATGAAG
401 CCTCGTTTCC HCTCCTGGTG GCTCACTGCG AAGTTTCCTG TGGGGG

182/472

ug416

1 GAATTCGTTT CTCCTGGGCC TCGATCTGCC GGATGACATC TTCCATCCAG
51 AGCATGAGGT CACGCACCAT GCTGAAGAAG CGGAACTTGT CTCCTGTGTC
101 TACCAGCCGC ACCCTGCGAC CCTCACAAGC ATCCAGCAGG GACTTCCAGG
151 CTTCCAGGAC CTCATTCTCA CGCTTCTGGA TGTCATCAGC CTTGTCCCCT
201 GCATAGGCTG CCTGGAGGCG AGCTGCATCC TCCTGCAGCT GCCTCACCTG
251 AGTGCCCAGA GCTTGGATGT CGTGCTCAA GGTGGTGTGC ATTCTCTGTA
301 AAGTTTCCAC AGTGTTTTGA TCTCTTCCAA GCTCCTCAGG GAGTTTCTTG
351 TGTTTGTCTT GGATTCGGCC AAAGATCTCC TTGGCATCAT GTTAAACTT
401 ATGAAGTTCA TATGAGCASC AAGAATCTGT GTTCTTGTGT CAATGAGCTC
451 CAGGAGGTCA CCCA

ug417

1 GAATTCGTGT GTGTGTGTGT GTGTGTCTGG AGTTTACCTG CTACATCAGA
51 ACGACCCCCG ATCCCAGCCA TTGCTTGTGG CCTCTCTTTA TAGTCAGATA
101 TTGCCTTTGT GTGAACCCTG GAACTATTGA AACACTTGTC TCTTGTTCTG
151 TTCTGTTTCTG TTGTAATCAC TGTTACATGT GGAGCCACAC AGTCACCTCC
201 ACGGGCTGTA GGAGCWGCTT TGTGGTCTGT GTCCATACAT GGGACCCTTA
251 CTTGGAGTAG GCTCTAGGTG CATTGGCTA AGAACAAGCG AGTAACACTA
301 GAAACAAAGC TCTGCTGGGG TGAGCTGGAG AWCATGGATG CTCTGCCAGG
351 GTGAGCAGGA GAWCATGGA

ug418

1 GAATTCGGAA CCTTAGGCAT TGCAGTACAG ACCCCAAGGC TAACCCACAA
51 CTAAAGTGG AAAATCTTAT RGTCTTTCCC CCTTGGTCAG ACACAGATAT
101 ATTTGAAGAA TTTCCAAATT TAGAGTTCTC AATTTTGGGT ACATCAAGAC
151 TTTTAAAGTA GAATTTACGT AGTAACAGAA GAGAAAAATC TGGGACCTTG
201 AAAACAGTAC ATTTACCTC CTTTGGGSTA AAAGTCACCT TCAGTTTAAAG
251 GSGGCATTC ACAGAAAACC TCAGCTGGAG CATCTCGTGG CGCAG

183/472

ug420

1 GAATTCCTTT CTCCTTCCT TCCTTCCTCC TGGCCTTCCT CTTCTTCCTC
51 CTTTTCCCCT TCCTCCTCCT CTTCTTAGC CTCAGGAGAC TTCACGGGAG
101 ACTTTTCGGC TTCTGGTTCC TCCTCCTTTT CTCGGCCTCT TCCTTCTCCT
151 CTTTGGCGGA GGCTGCCAAC TCCTCTGCGA TGGCTGTGAG GGTTTCTTCC
201 ATTTCTGACT TCTCATCTTC CMCTTTAGTT TCTTCGATGA TCTCCTCCAC
251 AAATTTGTGT TGGACCTTGA GCTTGGGGGC CTCGACTTTG GTCTTCTGAA
301 TCTTACTGGA TATTGTGACT GAGGGCTGTC GGTGTGTGTA CAGARGCCCG
351 GTGATGCTTC CTGAAAATGT GCTAAATCTG GTCTCTTCCC C

ug421

1 GAATTCAGTG AATGGTGGAA ATGCTCTCCA GTGGGGTGTG GAGAGAGCAG
51 GAAGCCAGTG GGCAGGCTGG AGCAGGTGGC TCATGGAAGG GTGGGTTAGG
101 GACCTTCAGC CTGACTTCTC CTGGCGGGGT GGACGTAGGG TGGGCAGAAC
151 CAGGAAGCCC ATGACTTCGT CCATGCTGCC TCCCTTCTCC CTCCTTACC
201 CAGGGTCCTG CATCCTTCAG SCCCCTATGT GGCTGCCCTG CACCCTTGCC
251 TGTCCCACCC GGATGCCATG CACCTGTCCC CGTCACTKGT TCCCTGCTTG
301 GACTGCAG

ug422

1 GAATTCTCAG CATCATCTCG TAGTAGTTGG TGAGGTTCTG CTCCACAAAG
51 TGAAAGGTAC GGATACTGAG GGTCTCAGAA ACAAGGCCGG GGAGGAAGGT
101 GGCAGCTCGG TTGAAGGCCA TGAAGAAAGC CATTTGCCCA CATGTAGTAA
151 GTCTCGTCAT GCTGCTGCCT CTCTCCCGAA GCAGATGATC CTTGACCGCC
201 CCATGA

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ug423

1 GAATTCGATG CTTCTATAAC CCAAGGAATG CCACGGATTG CCAGCAAGTT
51 CAGAAGTTAA GGGAGATGCT TTTTATAGGAT CCTTTCCAGG GCCCCTGGAA
101 GAAATCAACT CTGCTGACCC CTTGACATAA GACTTCAGAG CAGTGAATAG
151 TCTCTGCTCT TTTAGACATC TGGTCTGGGG TCCTATATTA GGGTAGCTCC
201 AGCAAACCTG TAACTTCCCT GAGCAAGTGG TTGGCACAGA CCTGTTATTT
251 ACTTAATGCA TAGTTCCTT TGTCCCTATA TTACATTTAC TACAGTCTCA
301 CATACTACAC TTTACCCATT ATTCATGAGG GTAAACTTGA TGATCACTGT
351 TTATTCAGCA CCTAGACAGA GTTGGGGATC TGC

ug424

1 GAATTCGTCG GCTTAGCAGG TCAGAAAGAC GTAAGCACAG ACCATGGCCT
51 ATGGAAGAAG CTGGACTATT AGGAACCTGT TGTAAGAAACC CAGGAGAACA
101 TAGAAGACAA ATAAGGGAAA GTTTGGGGGG ATGAAAGAAT AGGGGGGGTG
151 GCAAAGATAG CTCCATGTTC CTTGCTCTGA GAACCTGAGG ATAGAAGTTG
201 CCATTCATTG TCGTTGAAAG ATGGAAAGGA TWAAATAAGG GAAATGTCCA
251 GATCTGTTTG GGAGCCTGTT GAACATGAGG AAACCAAGGT GGGGTGTTCA
301 GCCCTGGATG ATCGTAGGAG TCTC

ug425

1 GAATTCCTCG CGTCGCGGCT GCGGAGACTA GAAGGAGGAC TCCGGATCCG
51 GCTCGGCGCT CGCCCTCGCT CGCCATGGAG AAGACCGAGC TGATCCAGAA
101 GGCCAAGCTG GCCGAGCAGG CCGAGCGCTA CGACGACATG GCCACCTGCA
151 TGAAAGCCGT GACGGAGCAA GCGCCGAGC TGTCCAACGA GGAGCCAACC
201 TGCTGTCGGT GGCTACAAA ACGTKGTAGG GGGGCCGCAG TCCBCCTKGA
251 GGGTCATCTC GAGCATTGAG CAGAAGACCG ACACCTCTTG ATWAGA

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ug426

1 GAATTCAGAG AATACAATCC AATTCCTGCTACAATTCAT AGAATTCGTC
51 AGTGTCTTCT TGAGACGCTG AGGTTCACTG TTGGCAGTTT CCAGTGGCCG
101 CATGTGCTGC TCAGAAAGGC CAGCGGCAGA CAGCTGCCCCG GAAGAACTTT
151 CACTGCTGGA AAAGTGBTCG CTCCCAAGGA AAGCCCAAGG AAGGCTGGGG
201 CCGTGGSTCA

ug427

1 GAATTCATCA ATTTTGCTAA TGATGTCAA TAAAGATTGG TTGTCAATGG
51 GCAGCACACA GTCTGCATGC TCATTCAGTT CCTTCATGGC CAGCATACTG
101 TTATAAGGCG AGGTGATGGC ATCGTCTTCA CTGGAAGGAT AAACCGCTGT
151 CACAAACCGG TACACTTCTG GGAATTCATC TTCAAGAACC TTAAACAGAA
201 ATGTGCCAAG CCCAGAGCCT GTTCTCCGC CCATGGGAGT GGATGATGAA
251 GAAGCACTGT AAGCAATCGC ACTGCTCTGC CGACTTCCGC AGTTTCTCTA
301 AAA

ug428

1 GAATTCCTTT CTTTCTTCT TCTTCTTTT TTCCTTTGGA AGATTTTACT
51 GCTTTTATGG TACCCCCCTC ACTCTGTGGT GTCGAGCTGT CCATCAGCAT
101 CACGTGGGTG AGTCTGGGAT CTAAGTACTT GACCTCACCA GTCTCAGTTA
151 TAGACACTTC CATAAGACGG GTGACTGAGT CCTGACGGCT CACAACACCA
201 CAGAGCCATA CTTCTCTCC TTCGGGTTGG TAGACCTTGA CTCTGTGGCC
251 CTGGACACTA TAGGGACCTC GGCTGAAAAT CTCTGTAGC TTTTGGTCAC
301 TGATCAAAGC ATTAAGTGT TCTCTTAATG CAGCATGTTT TAAAGAATC
351 TGATTTTGAA CATCTGTTCC CATCTGGAAC AGATGCVTCC CATTAGCATC
401 CGACAGGAAA CGAAGCTCTC GATCACAAGG TATTCAACTG GCACCACAGA
451 CCCCACSCC AGCTTATCTA CTAGGGGGGG TGAAAGTCAG GGHGGCCACT
501 GGGHAACTGG G

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ug429

1 GAATTCCCCC AATGTACTCT CTATCTATTA TATGTGTGCA TGATTAAAA
51 ATGGAGGGGG AGGGAGGCAC AATACAAGGG CTAAGAAATG GCTCAGTGGC
101 AAACACATTC TGCATGCAAG CATGAAGACC TGAATTTGAA TTTTCAGAAC
151 CTATGTAAAA GCTGGAGGAA TCGTGTGAGT ATATGTAATC CCAGCACCCC
201 TATGGGGTAA ATGGGAAATG GGACAGGAAG ATTCTGGGAG CTAGAGAGTC
251 ATCTAGCTGR GCATACCAC

ug430

1 GAATTCCTTG GAGAAGCCTG GAGCTCCACA TGCAGAGAAA TGATCTGTCC
51 TTGTGTCTCG TTCTGATTAA AAACAAAAAC AATCAAATAA AAAACAAAAT
101 KGAACAACAA CCTTAGTGTA TGGCATGAGA ATGTGAAAAC ACTAGAGATG
151 ATCAGGGGGA TCTTCAAATG GAGGCAGACA GCCAGTTTCT GAAGAGAATT
201 GCAGTAGCTC GGAAAGCCAG TCACCG

ug431

1 GAATTCGCA AATTCCTTAA GGAAGTGGAA GCAATCATTG TTTACTTTGC
51 TGCTGGTCTG TGTTTTACCA ATTGCAGTTA GTAAACAAC AGTCTAGGCA
101 TTTATGTGCT ACATGAATAT AACCAAACGT GAGAAAATAG AAAGTCAAT
151 TTTTGAGAAC TATTTTTTTT TAAATTCCAT AGGCAGGCTT TAAAATAAA
201 AACAAAGTGGG TCACTTTGAC

ug432

1 GAATTCGACA TAGGGAACAG GCCATCCAGA CAAGGAGTGA GGGTGGAAAT
51 TTTTGTATTT AGAGTCACAT GTAAATTTTA AAGCTCAAAA AAATAAACTA
101 GTAAGTCCAT GAAAAAATG AGTGCTTTGG GGGTGGGGTA GGGGATAAGA
151 AAGAAAATCA GTGAGGGGCG AATGCCCAAT TATCACTTAG CATCTCTTAA
201 ATAATTTCCA CTGGAGGCAG GGTATCTTTT CCAAAGAGAT GAGCCCCATT
251 GGATGGATTT GTTACAGTTT TAAGTGATTA AAATCGGGAC TTTACAGTAC
301 ATTTGTGGGK CTTTACTAG TTTTAGAGT GGTGTTKGC AAAT

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ug433

1 GAATTCCAAA TTCCCTTTGA GCCAGGTATG AGCTCATTTT YCTACAAGCA
51 TCCAAWWGTC TTCTTC

ug434

1 GGRATTCGTG AGGCCGAACG CTAAACTAAG GTACAAACGG CTTAGGCCTA

ug435

1 GAATTCCAGA GGGGAAGCCC GAAACCTGC TGTGCTTCCT GGAGTTGGCA
51 TGGCGGCTCG CCCASGGGGC TCCTCGCACA GACTGACTGG GGAGGGTGAG
101 T

ug436

1 GAATTCCTGG GGCTCTGAGG ATCCCTTTTC TTCCTCTTCC ACTTTGACCT
51 CTGTTAAGGA TYCACCTGCA TCCCSGAAAH TGCCACATTC TGCCACTCAA
101 AATTTCATC ATTTCGGGAG GSAAWTTTTT CATCTATGTC TTCAGTGAGA
151 GAGTCATCTA GATCAGACGT GGSAGAGGA ACCCAGAACC AACGAGCKTY
201 ATGTTGGCCT CAT

ug437

1 GAATTCGAAA GAGGGAAGAA TGAAGCCTGA GCTGAACCCT AAATAATATG
51 TCAGAAAATG ACAACTTGCC TCCCTCTAGA CTATTCATT TGAAAGATTT
101 GCTAGGTTAC ATTAGGGCTT GGGATAGATT TTTCTGGGAA TGGGGSCCTA
151 ACCCMCMGAC TAAAAAATG SCCCCGSTTC MCAGTTCT

ug439

1 GAATTCTTTT TTTTTTTTTT AAAAAAATAG TATGTATAGT GTGTGTACAT
51 GTGTATAAGC TCAAGTAAGA AAGCCAGAGG AGACTGGSCT TGTCTGTTCT
101 GCTCTCCACC ATTAAGCCCT TGAGACAGGG TCTCTACTA TACCTGATGC
151 GATAGCCAGC AACTCCAGT AACCTACAC CCAG

188/472

ug441

1 GAATTCGAGT AGATTCCCAG TGCTCACCAT GAGGGAAACA ATGTTACTAT
51 ACCTTTCCTA TGAGGAAAGC CGGGTAAACG TAGAGGTCCT CTGTCATGTC
101 TTAAACATA GTTTGAGTAG ACAGCAATGC TCTTTACCTA GCTTAGTGTT
151 CTGATGGCAA AATATTGTAT ATTGTGATAA TTATGTCCTA TTTATTTGAG
201 ATTCTTGTTT AAAATTTAAA AAACAAAAAA ACAAATDAAA ATTTTTTTGC
251 TATGCCCTAG ATGTAGGGCT TTTTTTTCCA ACCAAAGGTC TACAAAAGTT
301 TCTATAGAAA CTGTGATTG

ug442

1 GAATTCCACG AGGGGCTTCG GAAAGGAATG TTTTCTGGAA GTCCTTCCAC
51 ATAGAGATCA TTGGGATGGG CCTCAAATTT TTGGTACGGT ACAGCCTTGG
101 CTTCCGTGCT TCCAAGGCC TCGGCAAATT TCTTGCAGAA GAGCTGGTCA
151 ACCATCTTCC TCAGTTTGGT GATVCGAGCG TACCACTCTT CTTTCACTCC
201 TGAGGCTGGT TTATCAAGCT GTAAATCTTC TCGTGTTGAG TTCAGAAGCT
251 CATGTTTCTT AATCACGAAG CGGATCCTTT CCTTCDCCAG CAATATCCTC
301 TCAAGGCGAG GAATTCCGTA CGTCGACGCC TTCTAAAAGG AATCCCTTYA
351 GGAAGYYCTT CTACGTAAAG ATCTTCAACA TGGGACTGGA AAAGAGGGTA
401 C

ug443

1 GAATTCCTGG GATTAAAGGC GTRCACCACC ACGCCCGGCT CAGGCCAGAA
51 CCTTTACACA TGCTTAACTA AACTAGTGA AAAATGCATC TTA AAAACAA
101 GAAATTCCCA AAATACA ACT CAGAAATTAC TCCACCCCAT AAATGCAGCA
151 AAAAATCATC TGATCTATTT TACCAGTTAC TAAGCAAGGT ATAGTGGCAG
201 AGACCTGTAA TTCAGGGGGG CAGAGGATGT CACAAATTCA AAGCCAGTCT
251 GGTCTACATA GCAAGTCTGC CCAACTCAA TGCATTACAA AATGACCCCC
301 CTCCCCGACC TCTCAAAACA AAACAAAACA CACAAMACAC AAAGCCCAMA
351 CAACTCATTA GTAAAACAAT TTGATAATTT ATATT

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ug444

1 GAATTCCACT CTAATTTTTT CAAAGTAAAC GCTTCGGGCC CCGCGGGACA
51 CTCAGCTAAG AGCATCGAGG GGGCGCCGAG AGGCAAGGGG CGGGGACGGC
101 GGTGACTCGC CTCGCGGCGG ACCGCCCCGCC CGCTCCCAAG ATCCAACACTAC
151 GAGCTTTTTTA ACTGCAGCAA CTTTAATATA CGCTATTGGA GCTGGAATTA
201 CCGCGGCTGC TGGCACCAGA CTTGCCCTCC AATGGATCCT CGTTAAAGGA
251 TTAAAGTGG ACTCATTCCA ATTACAGGGC CTCGAAAGAG TCCTGTATWG
301 TAAHHHAAGT CACTACCTCC CCGGGTCGGG AGTGGGTAAT TTGAGMGCCT
351 GCGCCTTCCT TGGATGTGGW AGHCGTTTCT CAGGCTCCCT C

ug445

1 GAATTCCACA TCTCAAGAAA CTCAAAGAAT CATACTGTCA AAGACAGGGA
51 GTTCCAATGA ATTCACTCAG GTTCTCTTT GAAGGTCAGA GAATTGCTGA
101 TAATCATACT CCGAAAGAAC TGGGAATGGA GGAAGAAGAT GTGATTGAAG
151 TTTATCAGGA ACAAACGGGG GGTCCTCGA CGGTTTAGAT AATTCTTTTT
201 ATTTTTTATT TTTCCTTCCC CTCAATCCTT TTTTATTTTT AAAAATAGTT
251 CTTTTGTAAT GTGGTGTTC AATGAAAAT TGAATACTGG CACTCCATCT
301 CTTAGAACAT ATGAATTCTA GTGTTCAATA TTCATTATTG GTTGTTTTTG
351 TTGTGCTGAT TTTTVGTGAT CAGACCTCAG CCCCTTAATA CTGCCCTTTT
401 GCCCTTTAAG AGATTTTCATG TGTGCACAGA GAGGCCACCC TTT

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ug446

1 GAATTCGATT CACAGTTGCC CCAGAGCAGA GTGTGCCCTT CCACAAAGCC
51 CTAGAGGACT GGCAGTATGA CATGATGCCA GGATGAAGCT GTGATGTGGA
101 CGAGAAGATA GACCGGCTGG AGTGAGGGAG GGAACCTCAG CTTGGTCAGG
151 CCTTGCAAGT GAGGGCAGAC GGACAGGGTG ACCTGGCTAC TAGACTAGGG
201 TGGCATTCT TCTGAATGAT CCCTGTGCCT TCCCAGAGAA AGGTGGGAGA
251 AATAAAGGAC AGGGTGGGAA GGCAAGGGAG GTGACAGAGC CAGCTCCGTT
301 ATCTCCCCAG GCCTCCACAG CAGGGGTATC TGTCAGTTCC ATGCACCCCA
351 GATCTGGGCC CAADCCTGAG GGTCCCCACC CT

ug447

1 GAATTCAAAG CAGCTATGGG CAGCAGCCTC CTACTAGTTA CCCCCCTCAG
51 ACTGGATCCT ACAGCCAGGC TCCAAGTCAA TATAGCCAAC AGAGCAGCAG
101 CTACGGGCAG CAGAGTTCAT TCCGACAGGA CCACCCCACT AGCATGGGTG
151 TTTATGGGCA GGAGTCTGGA GGATTTTCCG GACCAGGAGA GAACCGGAGC
201 TTGAGTGGCC CTGATAACCG GGGCAGGGGA AGAGGGGGAT TTGATCGTGG
251 AGGCATGAGC AGAGGTGGGC GGGGAGGAGG ACCGTGGACT SGGGTAAGAG
301 CAAAACCTTT CTCCTTTTAT CTAATTTTGT TTCATCCATA GGATTTTCAA
351 TGGAAAGAAG GGAAGTAAAG ACATAAGAAA TTTATCCCAC TTTTCATGGA
401 CAATCTATTC SDCAAGCTAT CTCCTAAAAC ATGGAAATGT CATTAAAGTG
451 CAGTTTGCTT TTTTCCCTGC CAGTAACCAT TGTTGGGCTG GGTGAACAAA
501 GAATGCTTTG AACTAGAGC T

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ug448

1 GAATTCGTTT ATATTCTTAT CCTCCCAGGA TTTGGAATTA TTTCACATGT
51 AGTTACTTAC TACTCCGGAA AAAAAGAACC TTTCGGCTAT ATAGGAATAG
101 TATGAGCAAT AATGTCTATT GGCTTTCTAG GCTTTATTGT ATGAGCCCAC
151 CACATATTCA CAGTAGGATT AGATGTAGAC ACACGATCTT ACTTTACATC
201 AGCCACTATA ATTATCGCAA TTCCTACCGG TGTCAAAGTA TTTAGCTGAC
251 TTGCAACCCT ACACGGAGGT AATATTAAAT GATCTCCAGC TATACTATGA
301 GCCTTAGGCT TTATTTTCTT ATTTACAGTT GGTGGCTCTA TGGAGGT

ug449

1 GAATTCATCG GGAATAGTGG GTACTGCACT AAGTATTTTA ATTCGAGCAG
51 AATTAGGTCA ACCAGGTGCC TTTTAGGAGA TGACCAAATT TACAATGTTA
101 TCGTAACTGC CCATGCTTTT GTTATAATTT TCTTCATAGT AATACCAATA
151 ATAATTGGAG GCTTTGGAAA CTGACTTGTC CCACTAATAA TCGGAGCCCC
201 AGATATAGCA TTCCCACGAA TAAATAATAT AAGTTTTTGA CTCCTACCAC
251 CATCATTTCT CTTCTCCTA GCATCATCAA TAGTAGAAGC AGGAGCAGGA
301 ACGHTGAACA GTCTACCCAC CTCTHGCCGG AAATCTAGCC CAT

ug450

1 GAATTCGTTT TGGGATAGCA TTTGAAATGT AAATGAAGAA AATACCTAAT
51 TAAAAAATAA CTTTAAAAAT TAAAAAATAA AAGGAATGTG TGCTGGCTGG
101 GTGGGTGAGT GATGCTGGGT GGTGTTGGTGGT GGTCCACACC TCTAATCCCA
151 GCTTCCGGTA GAGGTGGGCA GATCTCTGAG TTCCAGGCCA GACTGGTCTA
201 TAGAGCCAGC TGCAGAACAA CCAGGACTAC ACAGAGAAAC ACTGTCTCAA
251 AAAACAACAA CAAAATGTAT GTCTAGCCTC TTHGCCAACT CTGTACTCTT
301 AACTGTTTGA TAACTGAGT CATAGAAGAA GCYGTGAAAT CTATAATGCB
351 AACTATGAA AGGACCAGGR AAGCGCCAGT CTGCCT

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ug451

1 GAATTCCTTA TGAAATATTC TGCATACTTA AATGAAGCTG GACTACAGTG
51 TTCTACGATA TCATCGAAGA TGCACAATCC CCATTGTCTG TCTGGCCATG
101 GTCTTTGCGG ACAAATCAGG TTGACAATTA ATGGGAGCAG CTGTTCAAAC
151 CACGGCAACA CCTTTTCTTT GTAGCTACTG AATATTGAGT GTAAAATATC
201 CGACACTTTA GTCAGTATAT AAACATCATT ATCATCCTCA TCTTGTAGTG
251 ACTCTTCAAC CTGCTCGTCA TAGTCTTCAT CTTGTCTTTT AACTTGCCGC
301 AACTCCTGAT TTTTGAAATG TKCTTCAAGC TTCGCCTTCA GGATGCCTCC
351 CAGCTCCTCA AAGTGCTCAT TGTTGAGGCA CCCGTCTCCC ATGACCTCAA
401 TGCACTTTGC AAAGGAATGC ATGATCTCCG AGAGGACATC TGAGTCGGGC
451 TCTGTGCCGA TGGCCTTGAT GAGAGCMCGC ACATGAAGTG CCACATCTGT
501 GTAAGGTACC SGGACCCC

ug452

1 GAATTCCTCG GCTCGAGCAG CCGCTTTTTT TTTTTTWMWC TTTTAGTGGA
51 CCTGAGAGTT AAATCAAGGG CTTGTGCAT GCTCACAGTA CACCCTACTG
101 CTGAGCTATA TCTCCAGACC CAGAATCTAT TTAGTTTATA AATAACTTCC
151 TAATGCCTGT CTAATGATGC ATATCTTAAA TAAGTAAATA TGTAAATAA
201 AACAGTATTC ATTTTAGTTT TAAGTAATAG GCTATCTTGA ATTTTAGTT
251 TAAGGTAAAT CAAATAAAAT TAAGACTATA AATGAATCCT ACTTCTATTA
301 TTTATCATAC TGTATATTGA CTTATGCTTT TATATTTTAA CATTGGCATT
351 CAAGTCATAT GAATCATGTA AAATTGGCTG CTTTAACTA TTGTAGTTTG
401 TTATTTGAGT GGTATTCTAT GTTGCTTAGA TTTTAACTGT GCCATGTGTT
451 TTATAGTTTA TATGGTTTTA TCCTGATTAT CTTTTTGTA ATGTGGGAGC
501 TAAGAACTTA AAGAATTTTG AAAATCGA

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ug453

1 GAATTACTGA TTTGTGTTGC TTTAACAACA GCAGACTCAT ACATCTCCTT
51 TTTAGTRGGC TGAACCCTGT ATCTGAATAA TAAGGGATCG ATTGCATCTT
101 TCTTCTTCCC ATGGTGAAAA GACTGCTTTG TGTTTCCGAG TCGTCACTGT
151 CCCTGATGAC AATCGTCTCT CCATCAGCAC TGCTCAGGTG THCGTTAGCA
201 AAACCATTCT GATGTAATGG AGGGAGGACT TCCAAGATTC TACTGTCWG
251 CCTTGTGCCA TTGTTTCCGA ATGACTTCCA CAGTCTCTTC AACAAAATAT
301 CGGTCCTTGA CATAGGCAAA GATATCATCA CAGATTTTCAT GCAADCGTGA
351 ACACGAGTAA GGTTGGTCAG GTATAAACG GAATAATTAG TGGTTC

ug454

1 GAATTCTTTA CAGATGATTG TGAACAACCA TGTGCTTGTT AGGAATAGAA
51 CTCAGGACTT CTGAAAGAGC AGTCAGTGCG ACCATCTCTC CAGCCATGTT
101 TTACCTGTTT ATAAAGTGGG GCTGTGTATT TAGAAGGGTG AACACAGTAG
151 AGAGAGTATG TTTCTGCGTC CTGGGCATTT GTGAACTAGA TGCCCAGCGG
201 CTGGTCCTCC TCCATCCCCT CCTTCCTGTT TCAGTCAATT CTAGTGTAGA
251 TGGCATTTTT AAGTCCATGT TTTTATGTTT TCTGGTTAAT GGTTATCCTT
301 CAGATGGTAA TTCTTACCCT TGTATTTGGG CAGAGCAAAA AGGCTTTGGC
351 TCTAGACTGG CCAGCAGTTT ACCTGGATAA RGGTACTT

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ug455

1 GAATTCTTGG GGTTAGTGAG GTCAACTTCC TCGGAGTCGT AGTCTGAGAG
51 GATCCACGGG AAGACAGGGT ACTGCATGAG GTCATTGTAA GATCTGCCTG
101 CCAGCGTGTT CAAGTGCATC AAATACTGGA AGTTGCTGAT TTCACCTCTC
151 TCCCATCTCT GAGTCACAGA CTTCTCTCCA ACCAGAGTGC TGAGTAACCC
201 AGACCCTTGT TCCACACTGG TGTTTGGTCT CTGTCCGGAC ACAGACTCCG
251 AGCTGTCCGT GAGAGAGGGC ACAACTGCCA GGAACCTTTG GTAGACTTTA
301 TTCCGAATDC CCTTTTGAAG AGCCAGGAGG TAGTCCGTC CATCTCCAGA
351 GAAAACTTCA ACAGCGATAG GCTGGAGGAG ATATCTCCTT TTATGCACCT
401 CCTTGATGTC TTCATATGCA

ug456

1 GAATTCTTTT TTTTAAAA TGACAATACA AAAGTACCTT TACACAATTT
51 ATAAAAGCAT AATTGATGAT AAAGCAAGTA GGAGTCTCAC AGTCAAGTGG
101 CACGGGGGCT GGGGCCATGA GCAGTCCCTG AACACCAGCT TGGATGTCTA
151 AGTTCCCAGT GCTGCCTGCC CCCGTMCTCT AGTTTACAGT GAAAAGGCCC
201 ATATTCCAGG CCTTGGTGTT TCTTTTTTTA AACCTTTAAA AACTTGACAT
251 TACTTCTCAT GAAAAAATAA TGAAATAACC CTCCCAAACM ACTGACAAAA
301 ATMATTAATA WWTGACCCTT TTTHAMCACA ACACAAGCRG ATCAAAAMCA
351 AAGGTTCCAA AGGATTG

ug457

1 GAATTCCCCG GCTCGAGCGG CCCCTTTTTT TTTTTTTTTT TAAATTTTGT
51 GTTTTTCGAG ACAGGGTTTC TCTTTATAGC CCTGGCTGTC CTGGAACCTA
101 CTCTGTAGAC CAGGCTGGCC TTGAACTCAG AAATCCACCT GCCTCTGCCT
151 CCTGAGTGCT GGGATTAAAG GAGTGCGCCA CCACGCCCAG CTTATGGGAC
201 CCCCTTTTCA TTGTAGTCTG GGGTACAAGT ACAGAAGCCC TTGAGGGGCT
251 CTGAACCTGT ACTGCCCCCA G

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ug458

1 GAATTCGCAC AGAGCATCTG TACATCCCTC AGAACTCAGA GTGAACATGC
51 TCAGAATCTG GCTCTGACGG GTGATTTGAA GAATCTGTGT TTGAAGCACT
101 TGAATCATCA ACTGGTTCAA ATGGTCGCAA GTTTGCATAT GTCACCTCTT
151 GGGCTAGTTG CTCTAGGGAA GGGCGGCCTA ATAGCAGGTT TCGGAGTGAA
201 ATTCGAGTCA TCAGGAAGCT GCGTCGAAAG ACGTAGAGCT TTCGCAGCAC
251 GAAGCGGAGA AATCGCTCAT GGAAAGGGCT ATTCGCCTG CGTTCAATTT
301 CTTGGAGCTT CCTCTGTCGT CTGAGAAAAG TTTGGACCAG AAGTGTTGGC
351 TCAGGGCCCC TTTTCTTCCC TTCCAAAG

ug459

1 GAATTCCCTT TACTCATATT TATCTCCTTA TTTTAAAGAG ATTTGTTTTT
51 TTTTAAAAT CTGTGTGTGT CTGTGTGTGT GGAGTGTGTC AGAAAAGGCC
101 AGAAGAGGGT GTCAGGTCCC CTGGGGCTGG AGTTACTGGC TGAGGTGAGC
151 TGCCTCAAAC AGGGCTGGGA ACTGAACTCA GGTGTCTGTC AGAAACAGAA
201 AGTGCTCTTA ACTACTGAGC CACCTCTTTR GCCCTCTGCC AATGTTTAGT
251 CTAACCACTA TTTCTAAGCT TCTGGTTCTC TGTGTACAGC ACAGGAATAA
301 AAACAACATC TAAGGCTGGR AAARTGGCAC DCACCTTTAA TCCAGCACTT
351 GAGAGGCAGA GGCAGGGGGA TCGAGGCCAG CCTGGTCTAC AGAGTAGTCC
401 AGGACAGCCA TGTAAGAAAA CTAATAATGA TAACAACAAC AACAACCACC
451 ACCAAACCC

ug460

1 GAATWCGTGT MGTGGTCTCC GAACDGCCCG GAAGCDCCGC AGTCACCGAC
51 GGGACCAGAA GTGGCATGAC AAACAGTACA AGAAARVCA CTTGGGCACA
101 GCCTGAAGGC CAATCGTTTG GGGGTTCTCA TGCAA

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ug461

1 GAATTACTTT GATGATAATC CACACAATAT TGATGTGAAT AAATTAAAGG
51 TGTTAATTTT CAAAGTATAA TTACAAAAAT AAAAGTAACA GACTGGAAGA
101 GTATTATTTA ATGGTCTACC AAAGATCTAT AAGCAAGAGT TTTGGGGAAG
151 AAATAACACT ATTTTGTATT TCACTATATT CATTTTAAAC TAAAGCTTGT
201 AATCTCTATT TTAAAATCA CATTATATCA CTTTCTTTTT TTTTTTTTTT
251 GGGTTTTWGT TTTTTTTTWC GAGACAAGGG TTTCTCTGTA TAGCCCTGGC
301 TGTCTGGAA TCACTTTGTA GATCAG

ug462

1 GAATTCCTGA GGAGTCCCTG GGTCAATGGC AGCAGAGGAG CTGCGGCCCC
51 AGATCACAGT ATGGCACTCA CACATTTTCA AGCCAGAACT GAACAGAGGA
101 GTTCGTAAC CGGTTTATTC AGGCGATATT TTGGCTATAT TCAGTGTGGA
151 TAGCGATGCT TCAGAGCAAA CACAAATCTA TGAGAAGTCA GAGGTAGCTT
201 TTATCATCTG TCTAAAAGGT TTAAAGAAAC CACCTTCTGT ATGTGAT

ug463

1 GAATTCGATG TGTGTCCTAC ATGCTGGTGG TTTTACCCCT ACCTGCTGCC
51 CATGCTCTTT CTGCTTCTC GGTAAGGCCG AGCAACAAGG GTTTACAGGA
101 AACCGAGATT CTTCCCGAGG CTCTCTTGGG CTCCTAGTGA GGGACTCAGT
151 GAGCGGGAGC CTTGGAAAA GAAGACGGCA GAGCTGAAGT GAAAAGCAGT
201 CTCTTCAGGA GGGATGTTCC CTCACCCCTT CACAGCACCA AAGTTTCTTT
251 GCAAATAGG GTCTGAGCTA CAAAAGGGAG GCAGATGTGC TTGTGAATGC
301 AT

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ug464

1 GAATTCCCCA CAGCAGAAGG GAGGAGACAG CCAAGAAAGA GTGAGCTGAA
51 AGTCAGGCCA GGATAAAGTT CTACCCAGAA GTGTCTGAGA GCCATCAAGC
101 CTTGTCCACC ATGATGGGCT CCATCCTTCA AACCATAGCC AGAACAGGCT
151 CTTTCTCTGG TAAGTTGCTT CTGTCAGGAA ATTCATCTCT GCAATGAGTA
201 AAGTTCCTCC TGCACCTGCA GAGGATGGGC AAGCACCGGG GAGTCTAGGG
251 GTCATCCAGC CCACCTGCCC CGCAGGBCTG AGCTAGACTG AGTGAGAAAG
301 GGAGCACAAA

ug465

1 GAATTCCCCG GCTCGAGCGG CCGCTTTTTT TTTTTTTTTT TTTGTAAAAA
51 GAAACATGAT TCTTTATTGA AGGAACAGCC GCCATACAAA GATCTATTGC
101 TTCCTACACC GCTACACTCA GAAGGAAGCC GAGAAAGCTA CAATAGGGSG
151 MGCATGCAGA ACCACAAACT GGAAAGCAGA GAGATCCTCT AAGGCACGGA
201 CTGGAGCCTG TTTTCCCAGC CTCTATGTCC AGTGCCTCTC TCAGCCCAGG
251 GAGAGCAGGG GAAGGCAAGG TTGTTCTCTC CTGCACCAGA CACTTAGATT
301 TCTCTCTAAG AAGAAACCAC TTTTCCATCC ACTGATTCCT CCACACTGAT
351 ATGGAAATTG CTGCTG

ug466

1 GAATTCCTTT TCTACAATGG TGCTCACAGA GACCTGCTTA CACTGTAGCT
51 GCTTAATAAA ATCCTTCACT TGCATGACCA TGTCTGAGC AATATTTATC
101 TCCAGCTCAG TGTGCCTCCT CTTTATGTTT TGCAGTTGTT GGTCAGCATC
151 CTGCAGGTAA ATCCAGAGCT CGGCCTTCAG GCTCTTGATC TCCTCCCAGC
201 CCTGAGTTAA GTTCTGTGCT TGGACCAGCC TTTGTTCAAT CAGCTGCTCT
251 GTTTGCTGAA TATCTTTTGC TGTGTTTTTC ACTGAGGAGT TTGACAAGTC
301 ACACATGGAG CAAAGGAGAT CCAAGTAGGT CCTGGCCTGC TCTTGCAAAG
351 CTCTGAAGTG TTTGACCTGC TTAACAGCTT CTGC

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ug467

1 GAATTCCCTC TTAAAGGCT TTGTCACAAC AAACAGAGTA AAGTTTACCT
51 CCCAGAACCA CCTTTCCAC ATGCAGAGGT AAGAAAATAC CAAAAGGGCC
101 CAAACGAAAT GTGGGTGGTG GTGTGACATA GGATAGTGGC AGTCTTCATG
151 CCTAAACAG CCCTAGGTAG AGCCAGGTAG AGTGGCAAAC CCTGTAAACC
201 CAGCACTACG GGAGCAGACA GGTGTGAGTT CCAGGCCAGC CTGGGATCCA
251 GCAACACTAA GTCTTAACT ATACATGCGC ATKCKCKCK CACACACACA
301 CDCKCTGTGA AAGGGGCTGA GTAAGGTACA GACCTTTAAT CCCAGCCTGG
351 GGAGGCAGAG ACAGGCCAGC CTGGTTTACA AAGTGAATTC CMGGCCAGTC

ug468

1 GAATTCATTA TCCTTCGCCT AGGACGTGTC ACTCCCTGAT TGGCTGCAGC
51 CCATCGGCCG AGTTGACGTC ACGGGGAAGG CAGAGCACAT GGAGTGGAGA
101 ACGACCCTCG GCACATGCGC AGATTATTTG TTTACCACTT AGAACACAGC
151 TGTCAGCGCC ATCTTGTAAC GGCGAATGTG GGCGCGGCTC CCAACATCTC
201 CCCCTTTCCT TTTAATAAGA GCAAATAGGC CACCCATATT AATGAGAGTG
251 GAGATAGAGG TCAAATCCCC AGTGTGTAGG TAAAGGAGCC ATGTACAGGA
301 TTAGCTCTTA GGCTCACAGG CTTTACCCA GAGCAACCCT GACCTGCTCC
351 CGTGTCGTTT TTCCTGGGGG AAGGGAACTA GGACACTGAA CCTTCATGAA
401 AGATGACATG TCTCCCTAGA ATAGGCTCAT AT

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ug470

1 GAATTCAAAA AAAACAACAA CATTGGCTTA AGTTCATCCT GATTTCACAT
51 TTA AAAAGAA TACTGGAGCC GGGCGTGGTG GCGCACVCCT TTAATCCCAG
101 GTCTCGGGAG GTAGAGGCAG GTGGATTCT GAGTTGGAGG TTGGCCTGAT
151 CTACAAAGTG AGTTCCAGGA CAGCCAGGGC TACACAGAGA AACCTGTCT
201 CAAAAGAAA AAAAWAAAA AAAAAAAAAA AGAATCATGG GTCAGTGAGT
251 GGAGGTACTT ACCCTAAATC TGGCATCCTG AATTTGATTT CCAGGACTCA
301 CTGGTAGAGG GAAACMDCTG ACTCCTGCAA GTTGTCCTTT GATCTCTATA
351 TGTGGGTTGT GGCATGTGTA TCCCTGATGG GCAATAATTC ACCAAGTAA
401 TTAATTA AAA TATAAT

ug471

1 GAATTCCAGA AAGCACACAG CACAATAATC TTAAGCACTA TTGAGGAAAG
51 GAGAGCCCCT GATCAGGCTA CCTTTGGTCT CTAAAGGCT CCTGAGTACT
101 AGTGGGACAT GGAACTCTC CATTACTGAG TTGTTTCAGT GTCATTCTAG
151 CTTCTGATG AGATGGCATC TAATGGGAAA ATGAACTCGC TTGGCTCCCA
201 CAAGGAGAGG GGAACACTTA GCTGCTGCCT GTCTCTAAAG GCATGACTGT
251 GTAGCACTTC ACTACCCCCT GAACTACTAG CATTAGAATC TAGTTTCAA
301 AGGAAGAACA AAGGRACCCT CGATTGCTAA CAGTATGTAA AGGTGCAGGC
351 GGTAGCAGGG AGGAGGACTG ATGTGTAGTA GCATGAAATC TGGAATGAGG
401 TTTTCATGAG AAGCCACACT AACTTATGAG TCAC

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ug472

1 GAATTCGGCG ATCCCAAGCT TGCTGGTTCC TTTAAGCAGG CTGACAATCG
51 TTCTTTCCTA ATGAAGTGGG TTAATACTTT CTCCTAAATT TCCATTGATT
101 CAAATGAAAA CTTGGTCTGT GTTCCAGGGG TGTAAGTCC AAAGAGAGTG
151 TATTAAATCT GATTCCTATT TTGTACGTTT AATTCTGGA CTCAGCACCT
201 TAGAAGCTGT GACTGGCTGT GTTCTTAGCA TGGCAGGAAA TACTTTCAGT
251 GGATTTAAAA AMVCTGTAGA AACGATGAGT AGTTGAGTCA CTACGTCTTT
301 TCAAAGCATG TTAAACTAC CTCCAGAAAT AGGTTTGCCT TTAATCAAAA
351 AGCAAACAGC AGTTTGGAGT TAGGGGCTGA AAATGAAAGG AGAAAGGTTG
401 AGAGCTATGA CCCAGCCCCG GCC

ug473

1 GAATTCGGCA GCATCATCCC TCCTGAGGCT TCCGTTGACA ATCTGCCCAG
51 TCACTGGGTG GATTAGACCA GCTTGCAGAA TTCCAGACAA GTCCATACCG
101 AGAGCTCCTT GAAGTGAAGT GATAGCACCA ATCTTAGGGG YGCDGGCACT
151 CACTGGGAAA GGAGATGTGG CTCCTGGAGA CCCCTCTGAG GAGCAGGAGA
201 GGTCTATAGC TGAATCCCCA TGCCAGCCAT TGAGGACAAT

ug474

1 GAATTCGTTT TTTGAGACAG GGTTTTTCTG TATAGCTCTG GCTGTCCTGG
51 AACTCACTTT GTAGACCAGA CTGGCCTCGA ATTCAGAAAT CCGCCCCGCT
101 CTGTCTCCTG AGTGCTGAGA TTAAAGGCGT GCACCA

ug475

1 GAATTCGGCG CCGTAGCCAT CATGAATGAC ACAGTAACCA TCCGGACCAG
51 GAAGTTCATG ACCAACCGTC TGCTTCAGAG GAAACAGATG GTCATTGATG
101 TCCTTCATCC TGGGAAGGCA ACAGTACCAA AGACAGAAAT TCGGGAAAAG
151 CTGGCCAAAA TGTACAAAAC CACACCAGAT GTCATCTTTG TATTTGGATT
201 CAGAACCAC TTCGGTGGTG GCAAGACCAC TGGCTTKGGC ATGATCTATG
251 ATYCTTTAGA TTATGCA

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ug476

1 GAATTCGTGG TTGTGAGCCA CCATGTGGTT GCTGGGATCC GAACTCAGGA
51 CCTTTGGAAG AGCAGTCAGT GCTCTTAACC GCTGAGCCAT CTCACCAGCC
101 CCTACTTGTC AGATCTTTGG AAATAAACT CTCTACTTAT CCCTGAGGCC
151 ATTAGGTTTG CCAGCCAGTG GCTATACCTG ACAAGCCACA GCATGGTCCC
201 TTATATAACA TGAAAGTGGG AACAAATAAT GAGACTACTA AAGGGAGGAA
251 CAAGATAGGG CAATGGTGGC AGGAAACAAA ATTGTTCCAT TCTCTCTCAC
301 AAGGGCAATC TAGGTTTAAA AACAGTGAGT ATTTGTGTGA AACCAAACT
351 BGAGAGAAGA AGGGGGTCAG TGAGAGAGGA AAGAGA

ug477

1 GAATTCGTTC CTTCTTCCAC ATACCGTCCA AAAAGAACAT GCATGGTCCC
51 CAGACCAGAA GTAACAACAC TGCCTAAAAA CTTGCTAGAA AAGGACAATG
101 ACCCCACCCC AGATCTACAG AATGAGAAAC TGTCTGGGT TTAACAGACC
151 AGATAAGTGT GCTTTAACAA GCTTGAGAAC CTGAAGCACA CCATCCTTTT
201 CAGCCGAGAA GCCACGAGGG GGAGTACAAC TTAACAGCCA TGGGTATCTG
251 TTATGCCAAG GTCAAAGGTA GCATCCTCTG AGGAGACTCC AGGGAGTACT
301 GGAACMACA CTCAGAGGAG AAATWACCAC CACAGAGCAG GAGGGAGAAA
351 GAGAAGTAGT GTATTAGGAC ACCAAAGAGA TAGAGTCTCC CAGGATTGAT
401 GCTGGCTTAG AAGCCAGAGC AAAAGATATC CMGTGTTGTT ATCTTTC

ug478

1 GAATTCCATA AACCCAAATC TCTGCCCAGG GTGATGGGTA CAGGCAACCC
51 CTCTTTGGTC TCCACCTAAC AGCCCCTTTC TCCTGCAGTA TGAAGCACAT
101 CTCCTGTCCT CTGCTCATCT TGCATGCCGA GGATGATCCA GTTGTGCCCT
151 TTCATCTCGG TAGAAAGCTA TACAACATTG CTGCACCATC TCGGAGTTTC
201 CGAGACTTCA AAGTCCAGTT TATCCCCTTT CACTCAGACC TTGGCTACAG
251 ACATAAATAC ATCTACAAGA GCCCAGAGCT TCCAAGGATA CTGAGGGAAT
301 TCCTAGGGAA GTCGAACCC

202/472

ug479

1 GAATTCTCGC ATTCCTCCTC CTCCGCTCGC TCTTCCACCT CCATCTCCTC
51 CTGCTCTGCC CGGTCCACGT CGTGGATGCC CACCAGGAGA CTGTAATCCA
101 TGATCTTCAG CTGGGCCAGG AACTCAACGT CCCGCTTCAG TTTTTCAGG
151 AAGTTCTTTT TGCTCTCTT TCCCACGTGC AGCTTCTGCC CTTHGTTGAG
201 GAAGTCATTA TCTTTGAAAG TTGGCAAGTC CTTAGCCTTT HHCTTGTCAC
251 HGCTTCTCTG GCAACAGTGG AACCTTCAG G

ug480

1 GAATTCCTTT TCTTTTTTCT TTTTCTTCT TCTAATCTCT CCCAGGTAT
51 TCCTACCTGA CCTTAACCTT TCCTCGGGT CAAGACCCTT GGAAAGGCCT
101 GTATACTTAC CGTTTCTCCT TGCTCCTACT CTCTCTCCCC GCTTTACTHC
151 YGATAGACTG TCCTGAATTT CCTCTAGAAT TTTCAGCCCT ATCTTAAGCA
201 CTATATAACA WGTGAAAAGG RACAAAAGGG CKTCTAACAC TAGAAAAATT
251 TAAGGCCAAA CATAACTTGT AAAGCCATTT TCCACTTTAC TTCTGATAGA
301 C

ug481

1 GAATTCCTTT CTCCTTCCT TCCTTCCTCC TGGCCTTCCT CTCTTCCTC
51 CTTTTCCCCT TCCTCCTCCT CTCCTTAGC CTCAGGAGAC TTCACGGGAG
101 ACTTTTCGGC TTCTGGTTC TCCTCCTTTT CTCGGCCTCT TCCTTCTCCT
151 CTTTGGCGGA GGCTGCCAAC TCCTCTGCGA TGGCTGTGAG GGTTCCTTCC
201 ATTTCTGACT TCTCATCTC CMCTTTAGTT TCTTCGATGA TCTCCTCCAC
251 AAATTTGTGT TGGACCTTGA GCTTGGGGGC CTCGACTTTG GTCTTCTGAA
301 TCTTACTGGA TATTGTGACT GAGGGCTGTC GGTGTGTGTA CAGARGCCCG
351 GTGATGCTTC CTGAAAATGT GCTAAATCTG GTCTCTTCCC C

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ug481

1 GAATTCCTTT CTCCTTCCT TCCTTCCTCC TGGCCTTCCT CTTCCTCCTC
51 CTTTCCCCT TCCTCCTCCT CTCCTTAGC CTCAGGAGAC TTCACGGGAG
101 ACTTTTCGGC TTCTGGTTC TCCTCCTTTT CTCGGCCTCT TCCTTCTCCT
151 CTTTGGCGGA GGCTGCCAAC TCCTCTGCGA TGGCTGTGAG GGTTCCTTCC
201 ATTTCTGACT TCTCATCTC CMCTTTAGTT TCTTCGATGA TCTCCTCCAC
251 AAATTTGTGT TGGACCTTGA GCTTGGGGGC CTCGACTTTG GTCTTCTGAA
301 TCTTACTGGA TATTGTGACT GAGGGCTGTC GGTGTGTGTA CAGARGCCCG
351 GTGATGCTTC CTGAAAATGT GCTAAATCTG GTCTCTTCCC C

ug482

1 GAATTCCCGG CTCGAGCGGC CCCTTTTTTT TGGGGGGGAG ACGGGGGGCTC
51 AGGGTGTGAA CATGAGGTGA GACCTGGCAT GGCAGGGCTG AGTCGTGCCT
101 GCTGTCAGCC CCTCTCTGTC CTCCCGAGG CTGAGGGGGR ACTCAAGCTC
151 CCTTCCCCAG CAGAGCCCAC CCACCCACCC HGCCTTCAA GCCCCCTTG
201 GAGAGTTAAC TGTCCGTGTG AGGCGCTCAC TCAACCAATA AGCCCC

ug483

1 GAATTCGTAT TTAAAATGAC CACTTCAATG CAGGAACCTG CCGTGCCAGG
51 CACTTAGCAT GCTGGGCATT TGGCTCTCAG CTTGTCCAGA CGCTACAGCA
101 GCAGCAGCAC AAGTCTCAGG ATCATCATGA GGCTGAGTCA CAGGAAGAGG
151 AAGACAGAGG GACAGTCAG CTGATGGACA GGCCTGCTGT GACTGCCCT
201 GTCATGTCCC TGTGCTGTGG GCTCTGAGGG CTCTGTCACM GCCCTTCTCA
251 GAGGAAGCAA GGGGGACTCA TTTTACTGTG TCCCAACTTC CCAGATGCAA
301 CTTGAAAATA TTCCCTTAAR VVTGCAACTA GACCAGCAGG CATTACTTTC
351 TTGGACCTCT TAAATCTCAC AMCCATTATG GTGGCCAGGA AGAAACTGTA
401 AACAAATGACA CTTTGACATC CCGTTGTCAT TGGAGACAC

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ug484

1 GAATTCGTAA TCCACTAATA TTTATGGGTG TTATCACAAG TATAACAATA
51 AGATGGTCAA CTACAAAAAA CAATAAAACA GTTGCCCAAA TAGCAGCGTA
101 CCCCTACGTT AGCACAGCCA GGTATAAAGA TCCGTAGCCA CACCAAACTC
151 TACAACTGAC TGTTAAGTGG CATAACAGTA AATAGAGGAA CAACCCATGT
201 TCAGGGATTA GTGAGAGGGT CCAGATGTTA GAAGCTGCRC CTCCTCCCCA
251 CTCCTTGAC TCACTCCATC ACTTAATGCA ACTAAAGCGT GTTCTTCTTT
301 CCTTTTCHCT CCTATCTGAC AATGTATGCT GATATTAATT TGAAGVCAAT
351 AGCCCCAACT GCCTTGAAAA CAAAGAAGTA TTATGAGTTG TTTGAACACA
401 TGGGKATTAA AAAAC

ug485

1 GAATTCGCGC GCTGTCTTCC CGCTCGCGTC AGGGACCTGC CCGACTCAGC
51 GGCCGCCATG G

ug486

1 GAATTCTTCT CGCGTGCGTC TCACAATACA GCTCCCCCTC CACGAAGAAG
51 TAGCCTTTCT GCTTGAGGTT GAGGTTACAG TCGGCACACA CAAAGCACTC
101 GGGGTGCCGG TACTTATCCC GGGCCTTGAC GACAGCACCT ACAATACCAC
151 TCCCACACTT GTCACAGAGC GGCATCCTCT GGGCACTGCC AGCCCCACCG
201 TGGACTTTCG TAACCGGAGC CCTCACGCTT CGAGTTCCAG CCGGACGGTC
251 ATCAGGCCCCG TCATTCACCA GATCCTGCAG CACCCTGAAG GAGCCCGACT
301 GGCGAGGAGC VGCTGGGTCA TCCCGGTTGT CATGGAGCAT CGGTACACGT
351 CCGACTGAGG GGGCACTGAA GCGTGGGGT CATTTTGCAG TGA

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ug487

1 GAATTCGGTT TGAATATGCT TGGCCCATGT GAAGTGGCAC TATTAGGATA
51 TGTGGCCTTG TTGGAGTAGT TGTGGCTTTG TTGTAGGAAG TGCATCACTT
101 TGGGGGTGTG CTTTGAAGCT CCGCRCAGTG GGAAAGAGAC CCTCCTAGCT
151 GCAGGGGCGA AAGTTTGTTC CTGGCTTCCT TTGGATGAAG ATGTAAAATT
201 CTCAGCCCCT TCADCGCCAT GCCTGCCTAG ATGCTGCTGT GAGTCCTGCC
251 ATGATGATAA TAGACTAAAC CTCAGAACCG ATAAGCCAGT ATCAATTAAA
301 TGTTGTCCTT TATAAGAGTH GCCTCAGTCA TGGTATCTGT TCACTGCAAT
351 GAAACCCTAA GTAAGACACT AACAGAACT ATAATCATTT GAGGAGAACC
401 ACAATTGAGA AAATGCCTCC ATAAAACTGG TGTG

ug488

1 GAATTCGAGA GAACGAACTA CCCAGCAGCT CAGGTCAGTC ACCTTTCCCC
51 ATCCCCTACC CTGCCTGCA GGTTTGTTC ATTGTGCTGA GGAATGTCCC
101 TGCCTCTGGG ATGACATCCA GGTGGTATAA ATGGAAAAGT GACAAATTAT
151 TCCTTTGCTC TAGTGTAGGC ATTGCTGTAA TTAGTAGCAA GTTGGAACCT
201 TAGGAAAAAA AAATCTCACC GGAGTGTGAA GATGCATTCT AATCCTCAGT
251 CTGCAGAGTA AATAAAGTGT CACACCAGTA GCCTDCCCGA GGCCACTTCT

206/472

ug489

1 GATTCAACAC TCCTCGTCCC CATTCTAATC GCCATAGCCT TCCTAACATT
51 AGTAGAACGC AAAATCTTAG GGTACATACA ACTACGAAAA GGCCCTAACA
101 TTGTTGGTCC ATACGGCATT TTACAACCAT TTGCAGACGC CATAAAATTA
151 TTTATAAAAG AACCAATACS CCCTTTAACA ACCTCTATAT CCTTATTTAT
201 TATTGCACCT ACCCTATCAC TCACACTAGC ATTAAGTCTA TGAGTTCCCC
251 TACCAATACC ACACCCATTA ATTAATTTAA ACCTAGGGGAT TTTATTTATT
301 TTAGCAACAT CTAGCCTATC AGTTTACTCC ATTCTATGAT CAGGATGAGC
351 CTCAAACCTCC AAATACTCAC TATTCGGAGC TTTACVAGCC GTAGCCCAAA
401 CAATTCATA TGAAGTAACC ATAGCTATTA TCCTTTTATC AGTTCTATTA
451 ATAAATGGAT CCTACTCTCT ACAAACACTT ATTACAACCC AAGAC

ug491

1 GAATTCGTTT TTGTACTGTT AACATTAACA ATTTTTTTTT TTTTAATTCA
51 AAAGATTCCA GGCTTTCTTG ACACTATCTT TACTCTTTAT ATACTCAGGA
101 GGTGGTGCTC CAAGGGCAAA GAATATTACA ACWGACTTAG CCAATTTAAC
151 TGCTCCAGCT GGAATACAC TCTAAACAGA ACCCCTACAA TCAGAGTCCT
201 ATGGCTCTCT CTGAAGAGCA ATGTAAATCA AACATTAGCA CATTCTATT
251 ACCTGCTTAA ATGTTCGAAG TCTATCCAGT GTCCTCTGTC TCTCTGGCT
301 AACCAGGCA CTTTTCTTT CCTCTTCATC ATGCAATTG TCTCTCTTA
351 TTTGTATTGT ATGATGGGCT CTATATTCAT CTTCACTCTG AAA

ug492

1 GAATTCGTGG GTCAGAAGCA GCTTTCATGT TAGTTCTTGA TTTCTACCTT
51 ACTGAGTTTM CTGTTATTAT ACTACATACT CCAGACTAGC TGGACCCTTG
101 AGCTTCTGGC CAGCTCCTCT GTGTCTACCC CAACCATGCT GTACGAGTAC
151 TGAGATTACA TACTTGCATC ATTGCACCTG GCTTCTCACT CGGTTCTGGA
201 GWTCAAACCTT GGGTTACCGG CTTGCAGTAG CAAATGTTTT TACC

207/472

ug493

1 GAATTCGCTA TTTATATATA AGCGATAATA TGGGTTTGTA ACATTAGTTT
51 TAAAAAAGGG AAAGTTTTGT TCTGTATATT TTGTTACCTT TTACAGAATA
101 AAAGAATTCA ACATTAAGAA CCATGTAACC GAGACACTTG ATCTGACACA
151 GGGGCMGTCG GGAA

ug494

1 GAATTCTTAG GAAGTTAAAA AAAAATAGTT TTGTAATTAA AGTATAAACA
51 AACATAGGCA ATGCACACCT TGTCATCAC TGGAGTAGGA TCATTGGATT
101 CAAATCATAA TGTGGATAGG ATAGGGAGGA TGAATTACCA GGATTCATG

ug495

1 GAATTCGCTC TCTTCTGGGT CTCTGAGGGC GGGCACTGCK CTCACACGTG
51 GGCACACAC

ug496

1 GAATCCHTAT TAAAAAAGA TTGGTCCTCA AGATGTTTAT TCAAATTATT
51 CTTACATACA CGACTCTGAA ACTTTCCACA ACTGCATTTT TACCTAAAAA
101 TCATCATAAA CCATTCAATT AAGCTAAATT AACYGGTCTC HGTAGAAATG
151 CTACAAATAC AAAATACTAC CTAGTCYGAT TTTACAAATC AAAT

ug497

1 GAATTCCTCA TGTTGTGATA ATTTATCCAT GCATAGCTTA CTATGGCAGC
51 TTTTGTATG TGGTACCATT TACCACTTAC TTTTTTTATT TTATGTATAT
101 GAGTACACTA TAGCAGTCTT CAAACACCCC AGAAGAGGGC ATCAGATCCC
151 ATTACAGATG GTTKCAGCCA CCATGCGTTC GGGACCTCTG GAAGAACAGT
201 CAGTCCCTTA ACTGCTGAGT CATCTCTCCA GCCCCTGGTT CTCACTCTTA
251 AGAAAAAAGG GCAGTAGTCT TAGTATCAAC TGTGAAAAAG GTAGATGTGG
301 TTAGTAGTAT TACYGAAAC

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ug498

1 GAATTCGGAT TTTTAAAATT ATGTGTATTT GTGTGTGTCC CTATGAATGT
51 AGGTGCCTAT AGAGGCCGGA GGTATTGCAT GTCCTGGCCT GACAGAGCGT
101 TGTTTGTGAC CGGCTAGACG TAGGTGCCAT GGCTTGTAGA AGAACAGGAT
151 GGTCTTGTCT CTGTCTCCAG CTCCTTATTA ATCTATGAGG GCTCTATCTG
201 CATGAACACC TACATGCCAG ARRRGGGCAT CAGATCCCAT TACAGGTGGT
251 TGTRAGCCAC CATGTGGTTR CTGGGAGT

ug499

1 GAATTCGAAC CCTCTATCTA CTATCGGAGC CTGAGCGGGA ATAGTGGGTA
51 CTGACTAAG TATTTTMACG AGCAGAATTA GGTCAACCGG TGCCTTTTGG
101 AGA

ug500

1 GAATTCCCCA GTCAAAGTTT GTAAATGGGA TCCCCATGAG AATGACTTCM
51 GTGGAGCAAC CGAGAGAYGC AGAATTCCAA CCCCACTCTA GACTTACTGG
101 MTCAGAGTCT TCATAGGCTC AGCCCAGTGA CCCCTGAATG TAGCTGTGTC
151 TGAGGGAGGC TGTTTTMCCA ACTCTTACVC TCCCTCAGTT GGSCAGSCTT
201 TTTTACATTC TTGACTTCTA ATCCCCCATA TGGAGACCTC CACCGCCTAC
251 ATTTCTAGGA TGCCTTTCCT CAGTTTCTTT AAAAAAACA CAAAAAAC

ug501

1 GAATTCGTGA TACCTGGCTC CTAGGTGACG ACCCTCAGGC GTCTGAATAC
51 TTTCTTCTCT TTATTACACA GGCCACATT CACAATTACC GTTGGTAGCA
101 GACGAGACTA GATCTTCGAG CCCCTGACAA CATACTACT TCAAAGCTAG
151 CAGAATGAAG ATRCVAAATG ACTGTGTCAT AAAAGTATCT TCTGTCATCC
201 TGATGATAAA GCATTCCTTC AACTCATAGT TCCTATTTAT GTATAGAGCC
251 TAACTCCTTC ACTGCCTCTT TGTTCTATAA AAGTCCAGG

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ug502

1 GAATTCCCGG CCCAGCDCCG CTTTTTTTTT TTTTTTYCTC TAGGATTTTG
51 ACATTGCTGG TGAGTTTKAC CCAATGATCC CTGATGCAGA GTGTTTGAGG
101 ATCATGTGTG AAATCCTAAG TGGACTGCAG CTGGGGGACT TTCTCATTAA
151 GGTGAGGCTA GTCTTGTA CA TAATAAAGGA GAAGTTTGAA TTTKGCCTGT
201 GAAATTGTCT TAGTATTGAT TTAATGAGTC AAGAAATTTA GAGATGGCCA
251 TTGTTTTGAG GGAADGGCAT TGATTGCCAA GGACATAGGT TAATTATATT
301 GRGTT

ug504

1 GAATTCGTTA TCAAAGTGAC ACAGCCCACA GGGGACAGAG AAGGCCCAAG
51 GACTCTCCAA ATTTCAAGTG CATGAACAGT CAGCACACTG ATAACAGCAA
101 GCCTCTAAGG GATTTGTA CCTCACTGCC TGATCAGCTA CAAAACTGG
151 ACAGAGATTT GATTATGGTA CAGAGCAGCA TATTGGGTG ACATAAAAT
201 GTCACCAAGT GDAAGCAATT AGAGCATCCC AACCTAAATC CATTGCAAG
251 TCCTAAGAAT CTACATGAGA AGACTATTGA AAAATATTTC

ug505

1 GAATTCCTCC AATCTMCACC TATACTTMAA AATCATGAAT CTGACTAGCC
51 ATGCCATTGA AAACCACTCA GTACTAGAGG ATGAACCAGT TTCAATGTT
101 ATCAGCCCTG GAAAACCGCC CAGCTCCDC CCCCAGCACA TTCTATTTTG
151 TTTTAACATT TTATAAAT

ug506

1 GAATTCGAGG AATATCAACT TAGTGCTATT TTCACATCGT TCAGTCAAAC
51 TTAGCCAGAG TTCCAACCCC TACTTAAAT TCAACTAGAA AGTTACCTAC
101 CAAGTACTAA TTAGCATTAT AAMGTCAGAG CCTGCAGCTC CAGGCCTTTC
151 AGTTAGTTGT TTAGTAGAAA GGACAGTCTT AAGCCAGATA CAGTTTCTCA
201 TAAGAAAGTT AAAGAATCCA GTGAAGCAAG TTTTTTCTTT AGCCCTAGAT
251 TCCCGGCAGA CTATTGAGCA TAGAT

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ug507

1 GAATTCCTGG CTTGGTCCAG CTGCCTTTTC TTCTCHTCTG TTCTTCCTCC
51 TCCTCTTCCT CCTCACTTCC CTTGGCTGCT TTTCCATTCA GAGAAGCTGG
101 AGTCCATTGG CCT

ug508

1 GAATTCGTAA ATGGCACTGT AAAAGGGCAT TTATCAACAT AACAATGTAA
51 CACCTAACAG AAAAGTGTGA ATTCGGGATC AGAAAAATTC AACGTTTAAT
101 TTGTAAACT TAAAGCTGTC ACTGGATATA GAAAAATAAA TTAAGTTAGA
151 TTAAGTTAAA GATCTACTGT CAGTTAAACC TCCACATATT TTTTAAATA
201 ATTAACCAG CTTGTCTAAA

ug509

1 GAATTCCTCA AGTGGGAGGA ATGTTAACAC YGCGATAGAC ACCAAGAAAG
51 AGAGTTGGGG GCTAGAGAGA GGCTCAGTGG TTAAGAGCAC GACTACTCTT
101 CCAGAGGTCC TGAGTTCAAT TCCCAGCAAC CACATGGTGC TCACAACCAT
151 CTGTAA

ug510

1 GAATTCTGCA TATCACATAG TTAATCCAAG TCCATGACCA TTAACHSGHC
51 CCTCHMCTC CTTCTAACAT CAGGTCTAGT AATATGATT CACTATAATT
101 CAATTACMCT ATAACCCCG CCTACWCACC AATATCCYCA CAATATATCA
151 ATGATGACGA GACGTAATTC GTGAAGGAAC CTACCAA

ug511

1 GAATTCGATC CTTTGAGCCA TACAACGTGT TTTCGCTTTA AAACAAAGCA
51 GACACTAATA AACCACCGTA TAGATAAAGG ATAGAAGAAT TT

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ug514

1 GAATTCCTGG CTTTTTTTTT TCTTCAATTT CTTCGTCATC ATCGTCATCC
51 TCGGAATCAC TCCAGGDCWC GTAATTATYC TGATTCCTGT TATTGTCACT
101 CAAC

ug516

1 GAATTCGCGG TCTCAGGGCT TGTAGGCTGT TTTATGATTC ATGTTTCAAG
51 ATGCTGAAGT TAGGTTCCCTA TGTCAGGAAA TCGTAGGTGC ACCTGAATTC
101 TGTGAACAGG ATGTCTTGTG GACTTCAGAC CTTAGCCTAA GCTTGTGTTG
151 AAAAACATGT CCCCCGTTGG AAAAATGCTA TGTCTGGGGA TCTTTACCCA
201 AAGGACCTAA GTTACATTTA TTTAGTTTTT TCTTGAGACA GCTTAGGTTG
251 GTCTTTAACT TGCAGCAGTC CTCATACTTT GGCTCTTTCA TGCTGGGGTT
301 AAAGTGTGTC TCATCAGGCT CAGACATATT CTTGGGAGGT AGGAAAGAAA
351 GCATGSGGCA GAGAAC

ug517

1 GAATTCGGAG CACTTACCAT CTGCCCTCAG GAATATACCT GCTGCACCAC
51 AGAAATGGAA GACAAGCTGA GTCAACAGAG TAAACTGGAG TTTGAAAACC
101 TTGTAGAAGA GACAAGCCAC TTTGTGAGGA CCACGTTTGT GTCGAGGCAC
151 AAGAAATTTG ATGAGTTTTT CCGAGAGCTG CTGGAAAACS CAGAAAAGTC
201 CCTAAATGAC ATGTTTGTCC GGACCTACGG GATGCTGTAC ATGCAGAATT
251 CAGAGGTATT CCAGGACCTC TTTACTGAGC TAAAVCGGTA CTACACAGGG
301 GGTAACGTCA ACCTGGAAGA GATGCTCAAT GACTTCTGGR CTCGGCTCCT
351 GGAGAGGATG TTCCAGCTGA TTAACCCCCA GTATCACTTC AGCVAGGACT
401 ACCTGGAGTG TGTAAVCAAG TACACAGACC AGCGAAGCAT TTGGAGA

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ug518

1 GAATTCATCA GAGGTTGATG TAACCCCTGG TTTAGCTAAA TTTTCCGTT
51 TAGATTCAAC TTCTTCTTC CCTTCTTCT TATCTGGTTC TTTTCTTGGC
101 TTCTCTTCTT CCTTTTGGCC TTCTTCTCT TTTTAAAGCT GCTTTTATAGG
151 TTGTTTCTCC TCTGGTCCCT TTTTCTTACT TTTATCTTCA TCAATAACCA
201 TGTCACCGTC TGAAGGACAA GGCTGCTTCA CCACTTTAGG TCTGCCTCTT
251 GGTGTTGGGAA TCTTGACTTC AGTAGCTGCA GGTCGTCTCT TCTTAGGACT
301 TGCTTTCACA TTAGAAGCGG TTGCTGCAGT CACCATTCCC GCCTCTTCAG
351 TGTCTACTTG TTTTTCAGCC TT

ug519

1 GAATTCTTTT TTTTCCCTT TTTTAATTTT CCACAGGCCC TCTGTGTTTG
51 AGACTGTGCC CACTAGTCTG AAGGTTGAGA GGATTATTTC GATTGGCAAT
101 TAAGACACAA GGGGCACCTG GTGGGCACAG CGCCACCTA CTCTCCATA
151 TGCAGTTGTC TGCATAATTG TGCAAATGAG AAAAAAAGA TTTATTCACA
201 AGAAGAAATG TGTAGCGTGT AGAGATGGCT TAATTTGAGT TCCTCGGGCA
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301 AAGGGATGAA GATGCCCAGA TGCCAGGGAA GGGCTGCTTG GTCCCTGGCA
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ug520

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ug521

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ug522

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ug524

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ugs001

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ugs024

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ugs029

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ugs033

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ugs038

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ugs042

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ugs064

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ugs068

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ugs074

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231/472

ugs084

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232/472

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ugs093

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ugs100

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201 caagg

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ugs104

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ugs108

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ugs113

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238/472

ugs117

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ugs121

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241/472

ugs131

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242/472

ugs136

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ugs140

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ugs146

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ugs147

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ugs148

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245/472

ugs149

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ugs151

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ugs153

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ugs160

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ugs164

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ugs173

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ugs181

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ugs187

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253/472

ugs192

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ugs196

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255/472

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257/472

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ugs216

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ugs221

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ugs227

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101 ctctgcatgg taatgaggca tcagtattgg ttaacaaaaa agatgtagca
151 ctctataaaa gaatgaagggt tgagg

ugs231

1 ctgtcttgta actccagaga acttttatag gatttgatta aagggtttaa
51 taaactgttt aatacttaaa gttagaagag gttgactgta cacatggct
101 tgtttgatg tgtaggctg tgcttctaat ctcaacactt tgggagggct
151 gagacagaat tgccacaagt tcaaggcaaa

ugs232

1 cagccagctc ccaggagccc gatgagcttg aggagctccg aggcaagaat
51 gaaagcctca ctgtgcggct gcatgagact ttgaagcagt gtcagaacct
101 gaagaccgag aagagccaga tggatcgaaa gattagccag ctttctgagg
151 agaatgggga ccttccttt aaggttcgag agtttgcaaa

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ugs233

1 cccggctcga gcggccgcng cctgtttact tctttgtttt tcctaaggat
51 ggctttaaaa taccatcagt gttccttttt ggaaggagtt gcttcccggg
101 tggtatgtct gtgggatatt ttatccaag aatcaaattg ttactgaatc
151 tctctgaaac tccaggcata gtagcacact cttatataa

ugs234

1 cagcagaatn tatgccacta tatacaaaca caggacaacc tgaagctaaa
51 tggatgccca ccgcagatc aacagggtcca gcctcacagt gcacgccctg
101 agctacggcc cctccaaaaa ggcatcttcc cctcacagcc tccacgcaa
151 acaaggagca tcaagaatct gtctgggttg ttt

ugs235

1 gtctgtgtga ccaaggactt cctgtcactt ttcccttttt aaaattgaag
51 gagaaacagc ccagtagctc caccctttct ggccacagat ggcattccgt
101 tagtttgcaa tagccacctt atggttaaag ccaacagggtc atacagcttg
151 gtcccagctc gtctgcctgg acgtgag

ugs236

1 cgccggccga ggagcagccc cagcaacagg cctcccgacg gcccagggca
51 tcagccgcgn cgcgaanccc cgtctctctg tcagggcaag aagagtccgc
101 gactccagtg tatagaaaaa ctaacaactg ataaagatcc caaggaagag
151 aaagaagatg attctgtctc cttaggaagt tt

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Horizontal Pools →									
Vertical Pools ↓	297	298	299	300	301	302	304	305	E16
	306	307	308	309	310	<u>311</u>	312	313	<u>E15</u>
	314	316	317	318	319	320	321	322	E14
	323	324	326	328	329	330	331	332	E13
	333	334	335	337	338	339	340	341	E12
	342	343	344	345	346	348	350	351	E11
	352	353	354	355	356	357	358	359	E10
	360	364	365	366	367	368	369	370	E9
	E1	E2	E3	E4	E5	<u>E6</u>	E7	E8	

Fig. 2

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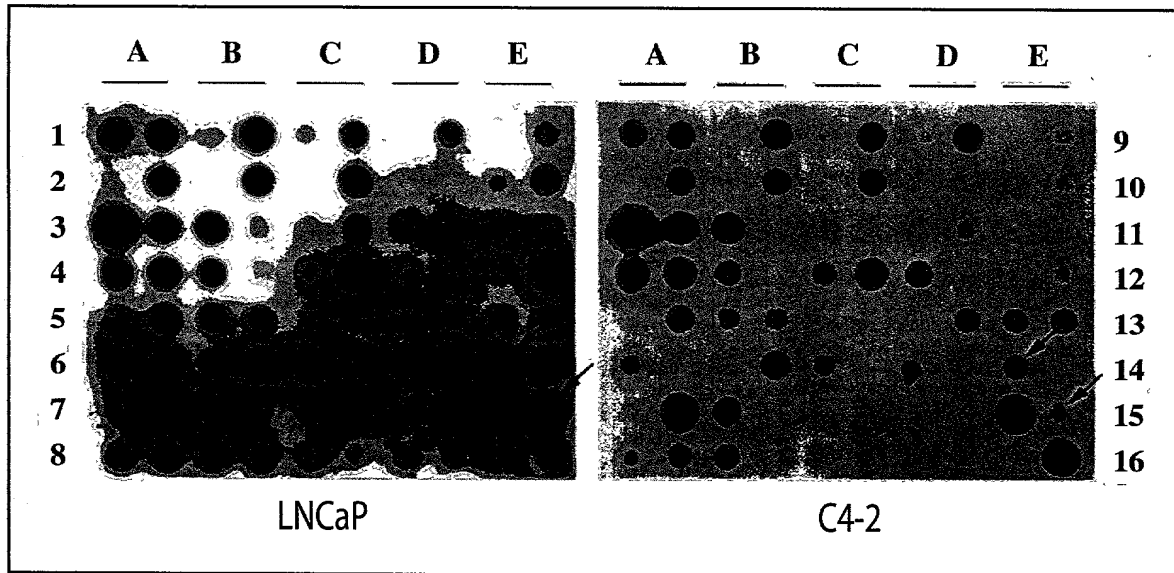


Fig. 3

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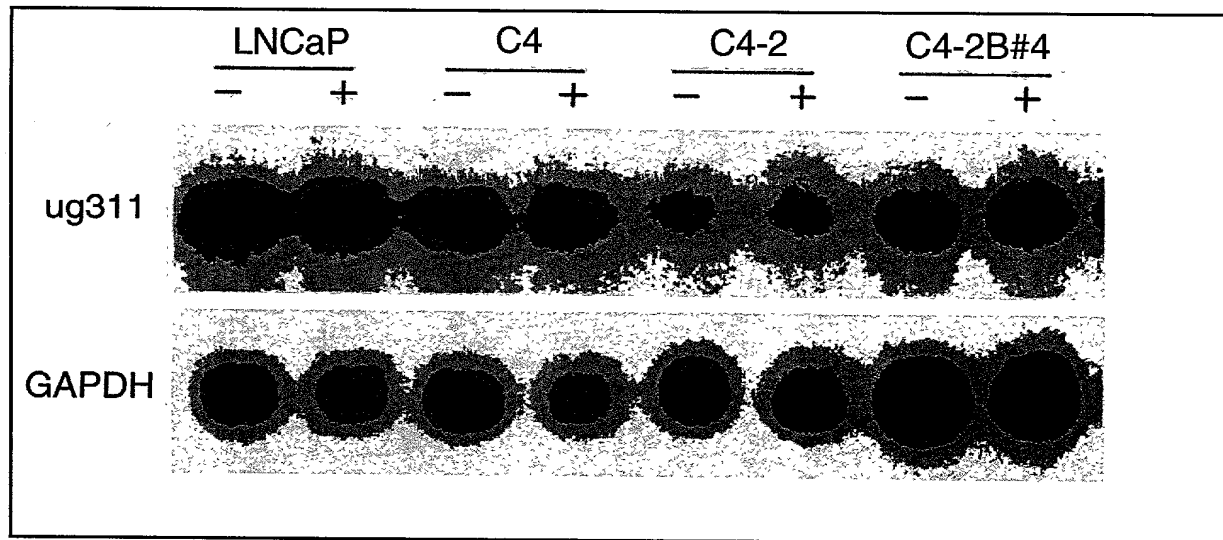


Fig. 4

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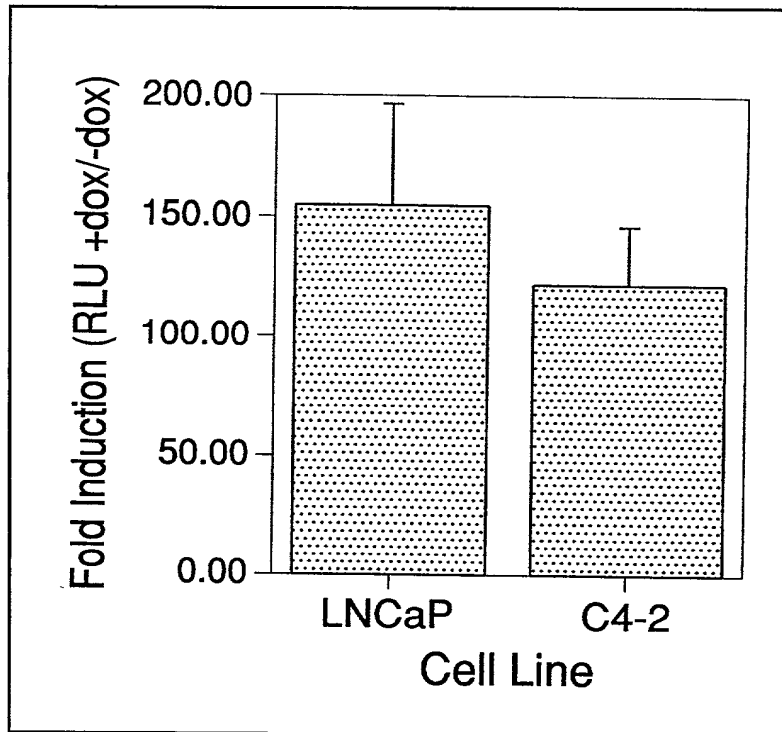


Fig. 5

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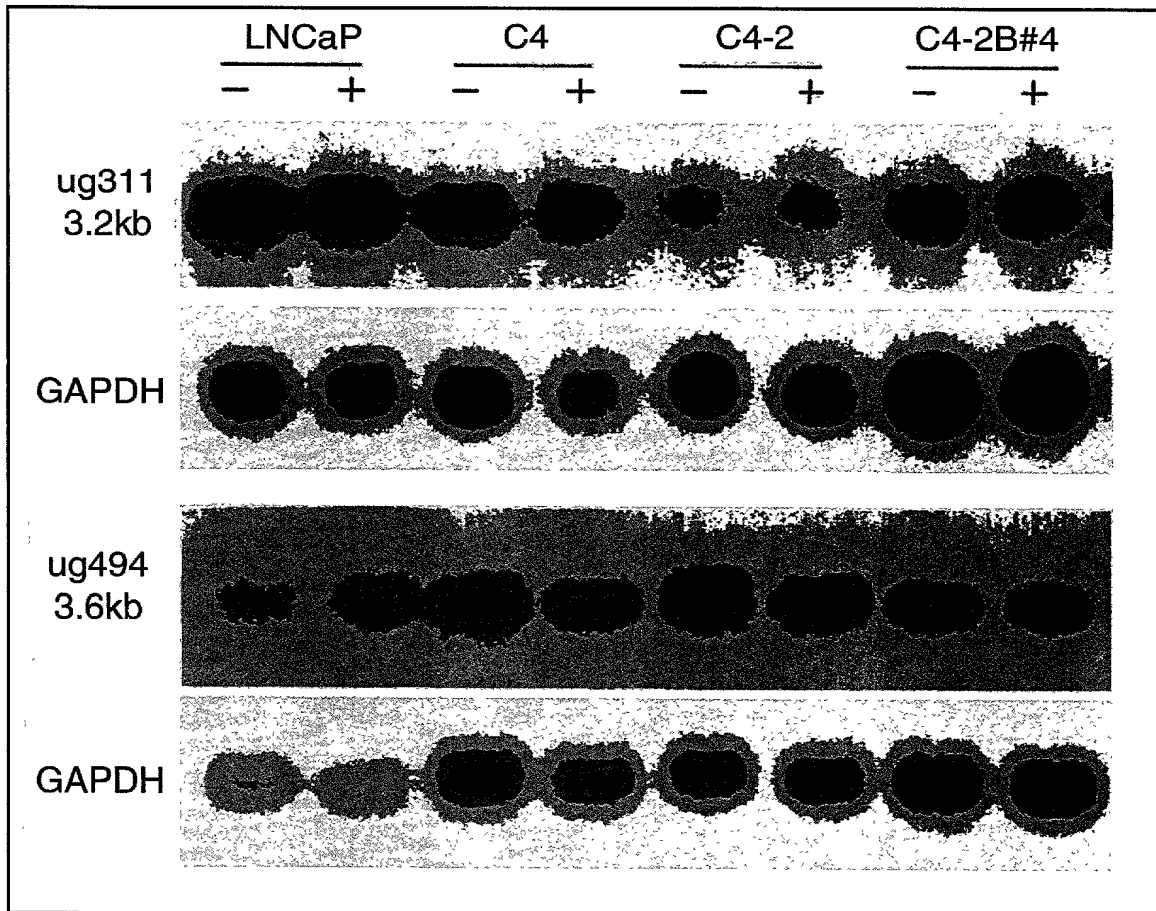


Fig. 6

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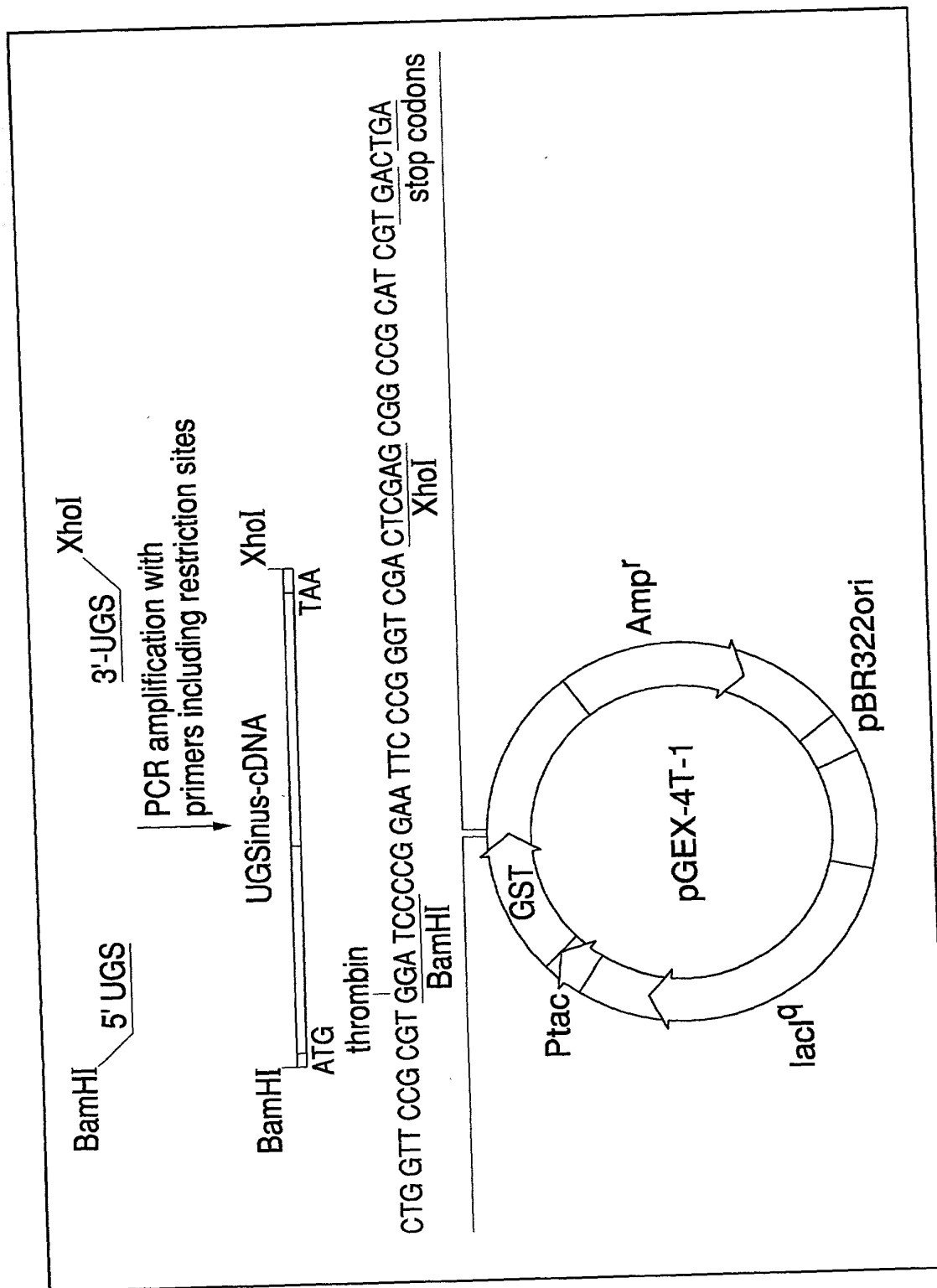


Fig. 7

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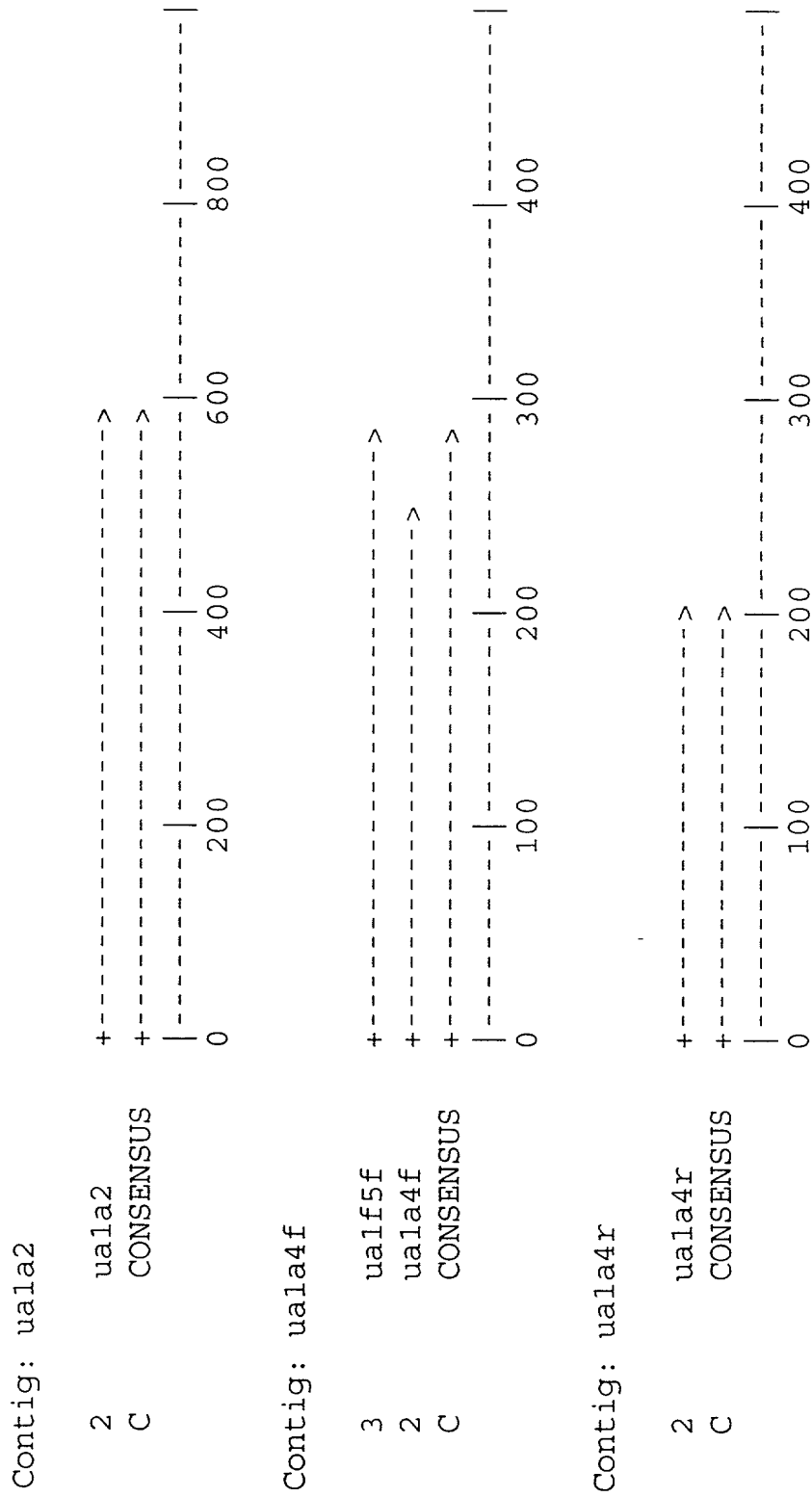


Fig. 8 - 1 of 180

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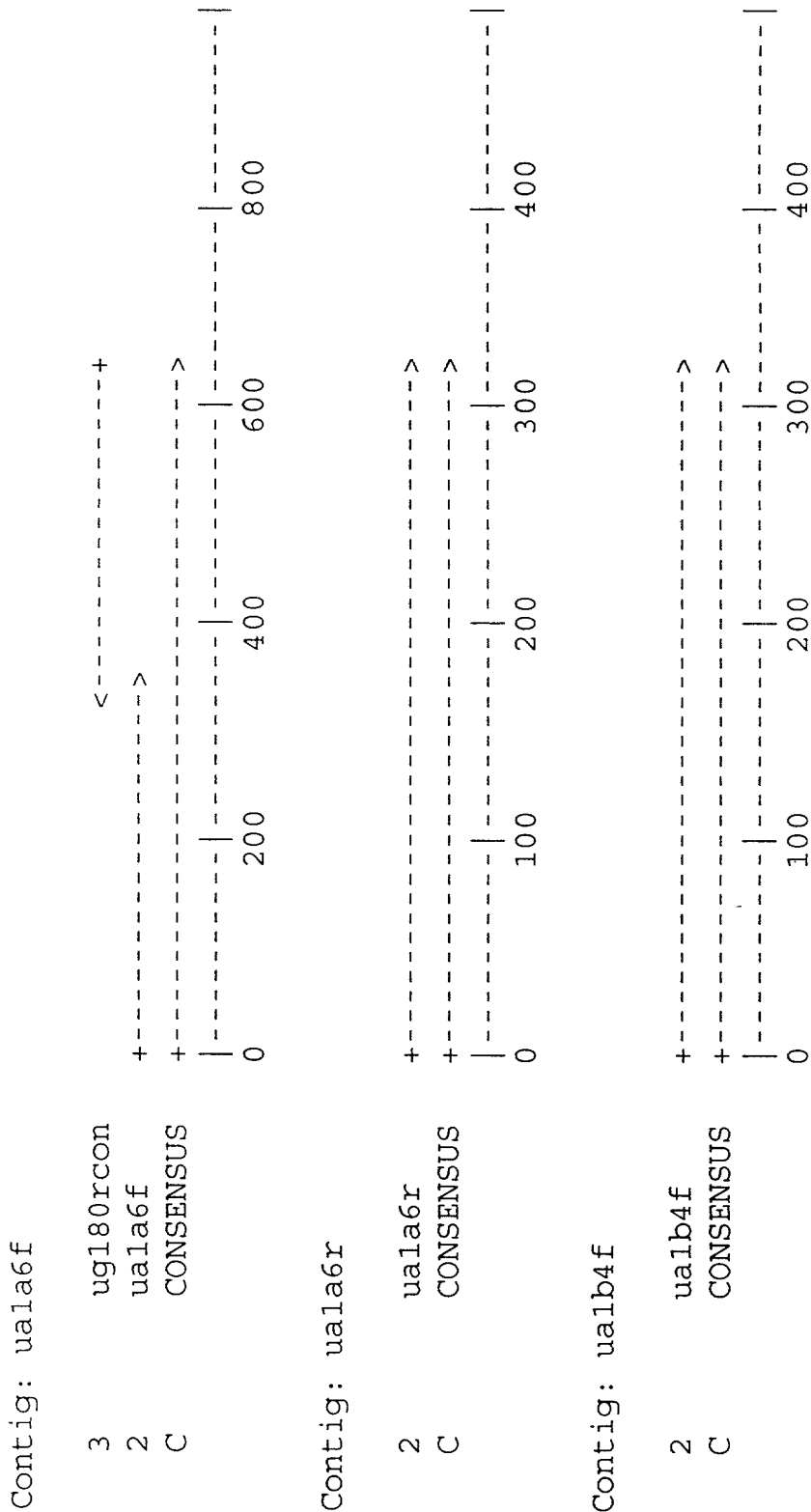


Fig. 8 - 2 of 180

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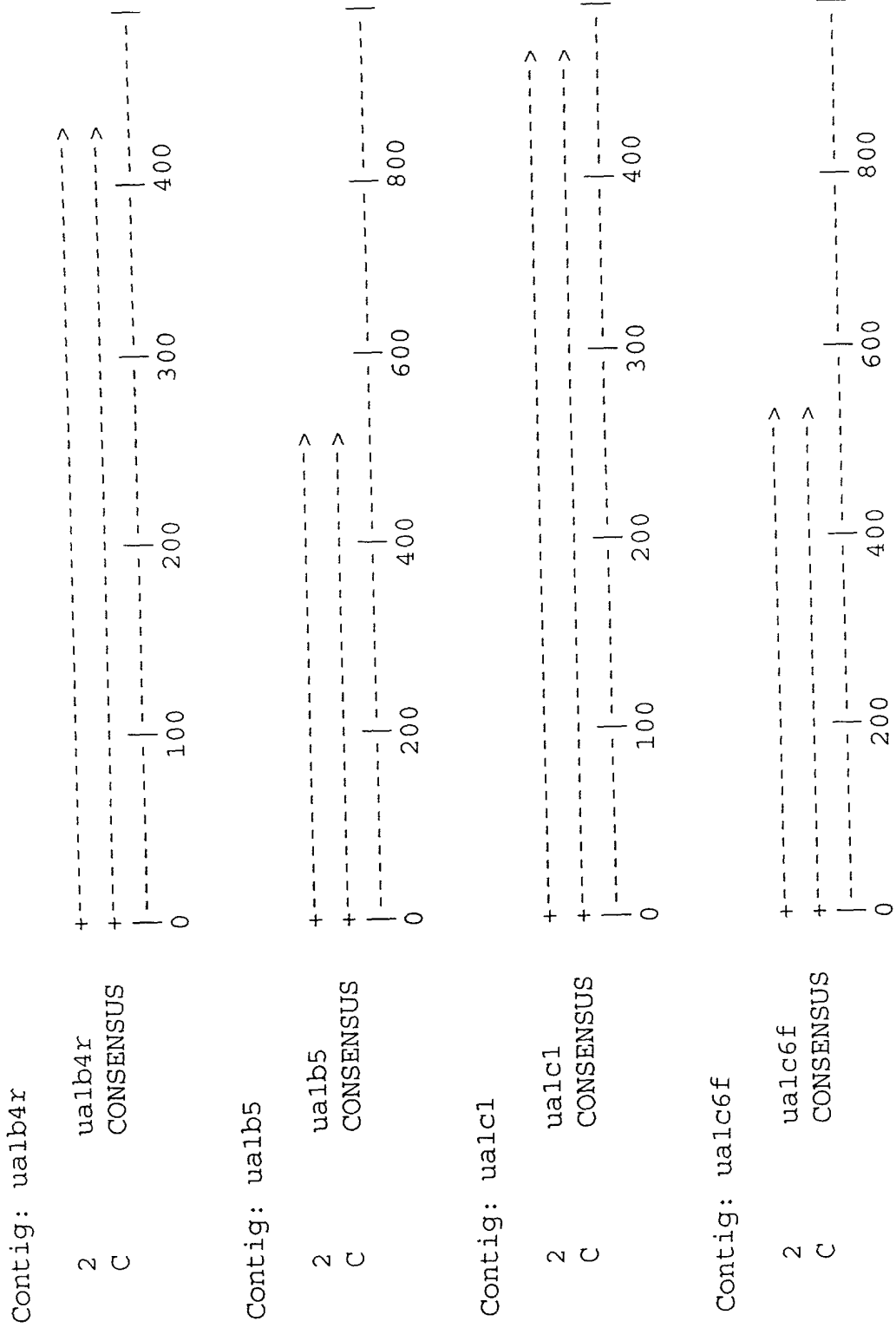
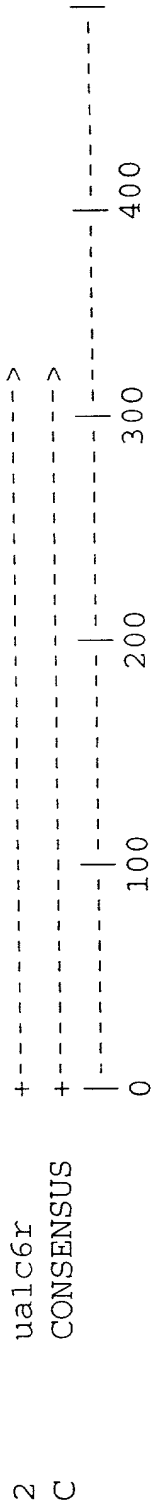


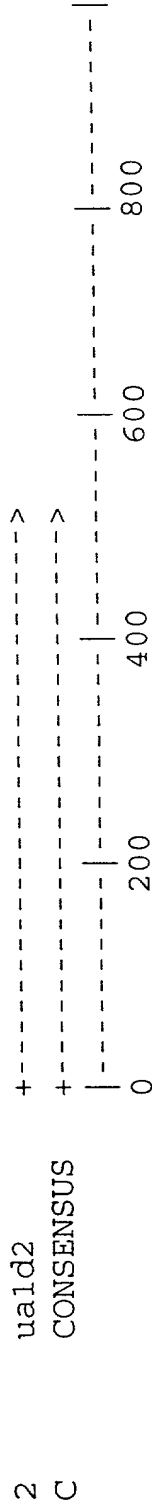
Fig. 8 - 3 of 180

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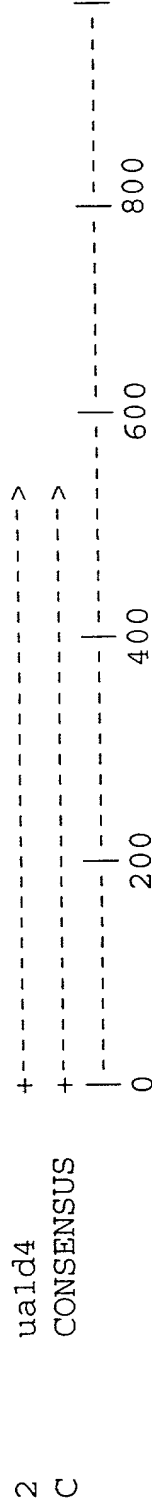
Contig: ualc6r



Contig: uald2



Contig: uald4



Contig: uale1r

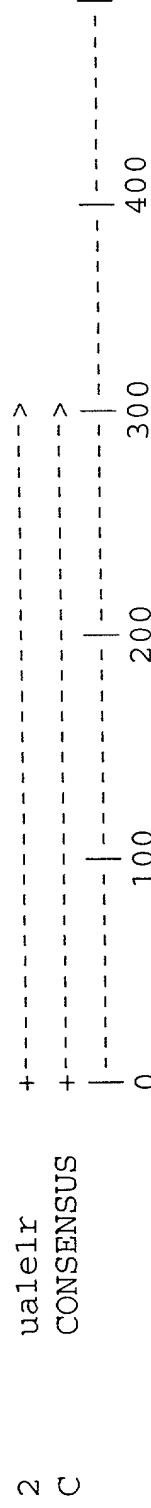
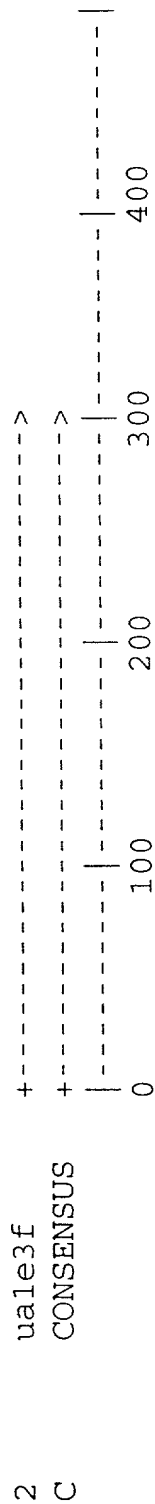


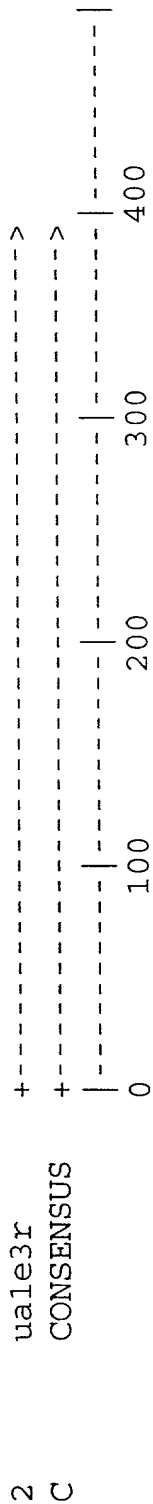
Fig. 8 - 4 of 180

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Contig: uale3f



Contig: uale3r



Contig: uale5r



Contig: uale6f

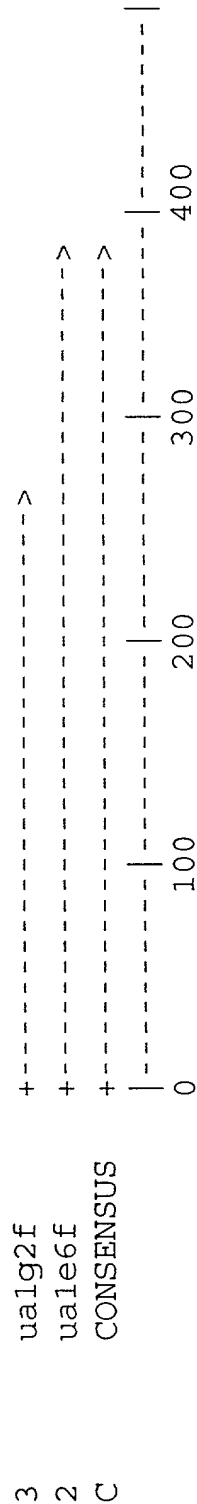


Fig. 8 - 5 of 180

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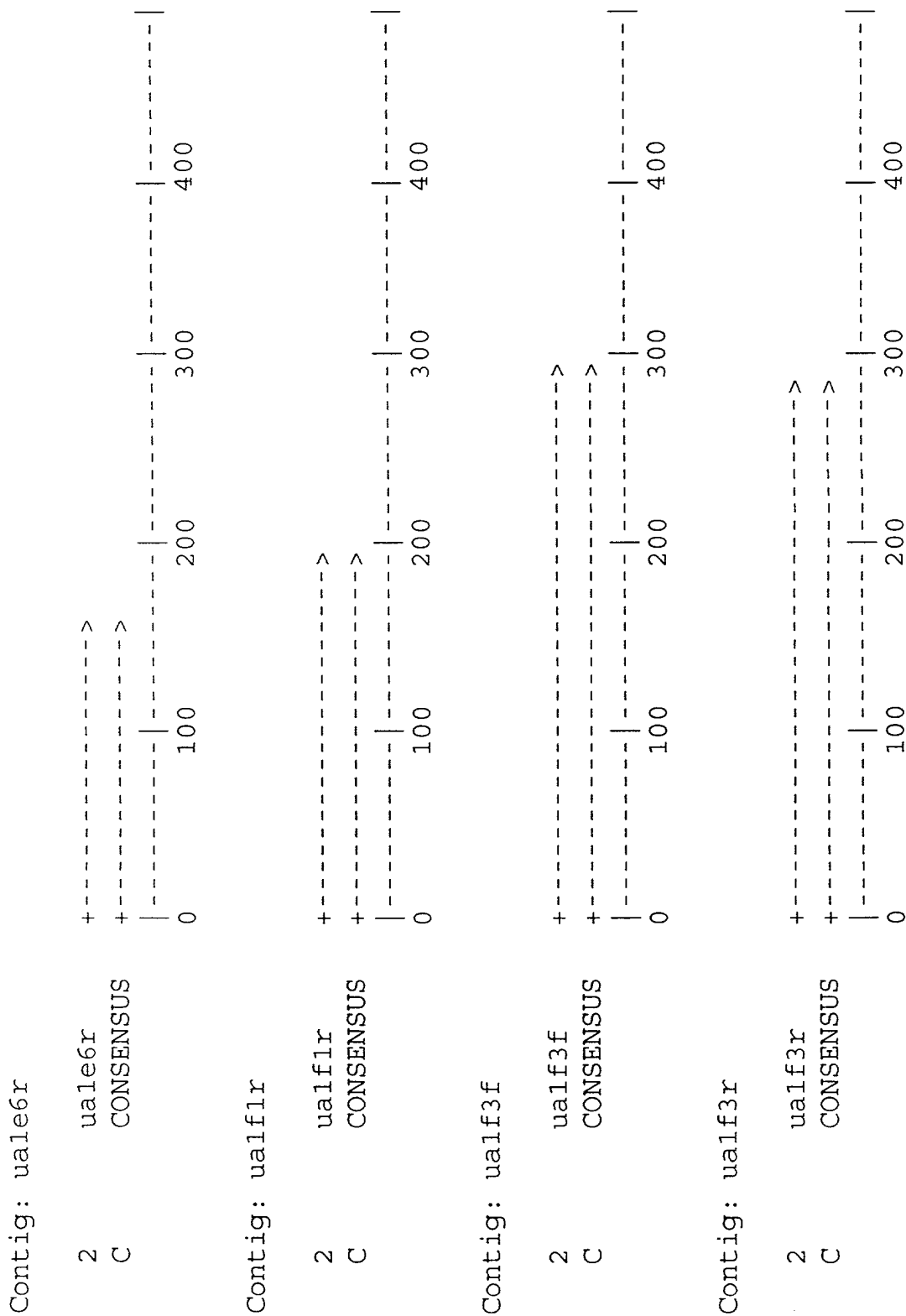
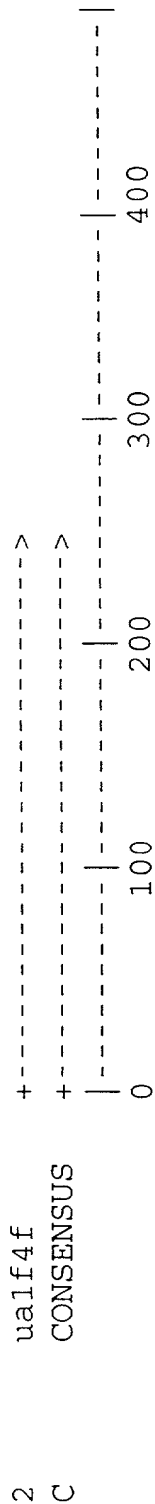


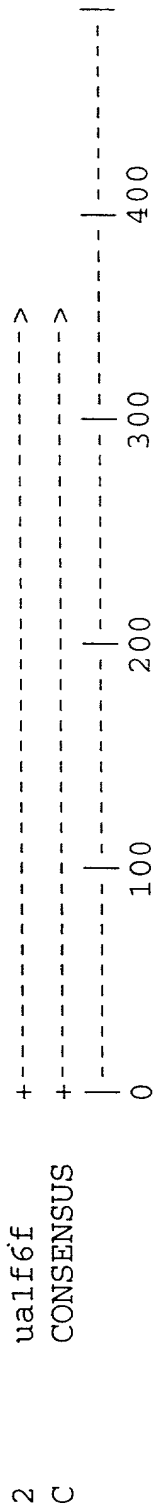
Fig. 8 - 6 of 180

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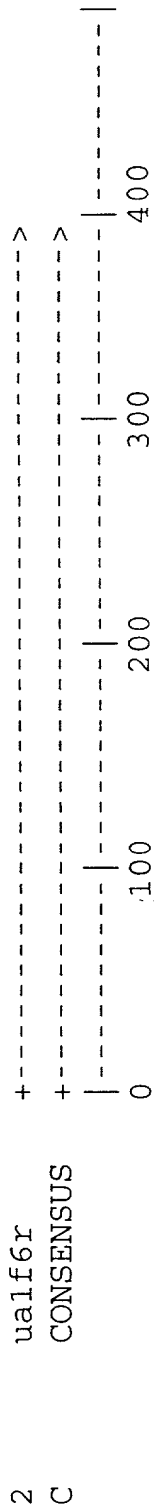
Contig: ualf4f



Contig: ualf6f



Contig: ualf6r



Contig: ualg4r

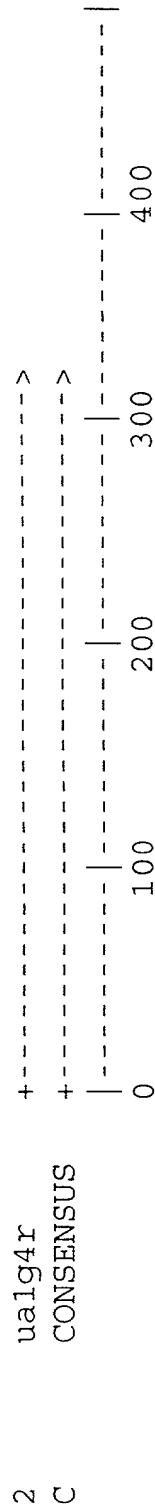
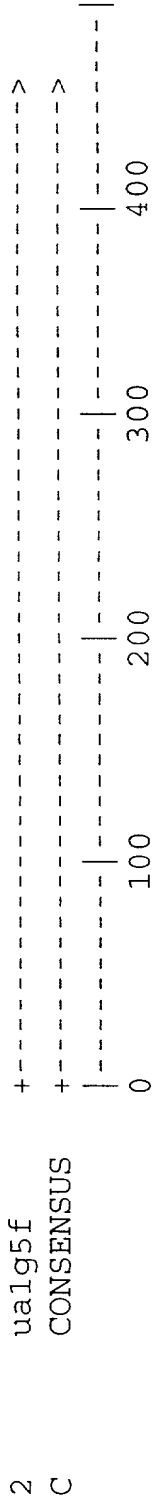


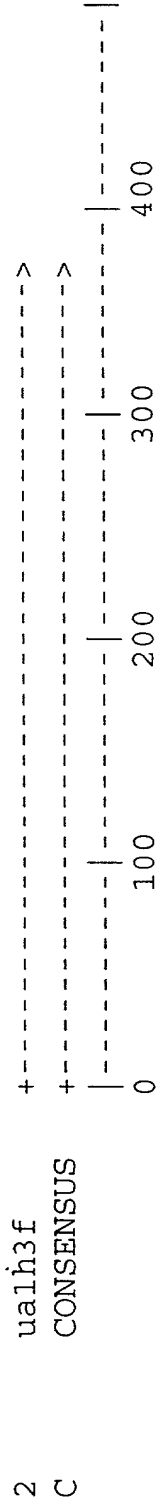
Fig. 8 - 7 of 180

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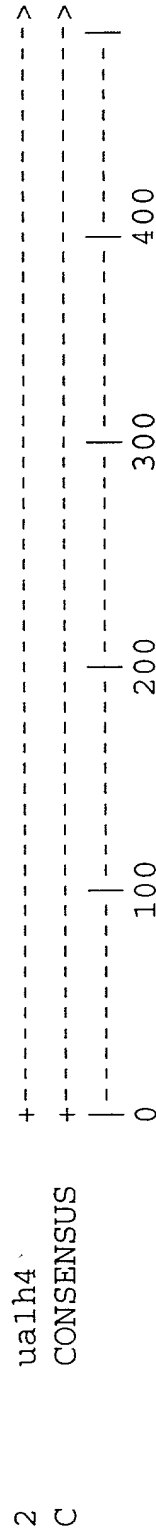
Contig: ua1g5f



Contig: ua1h3f



Contig: ua1h4



Contig: ua2h6r

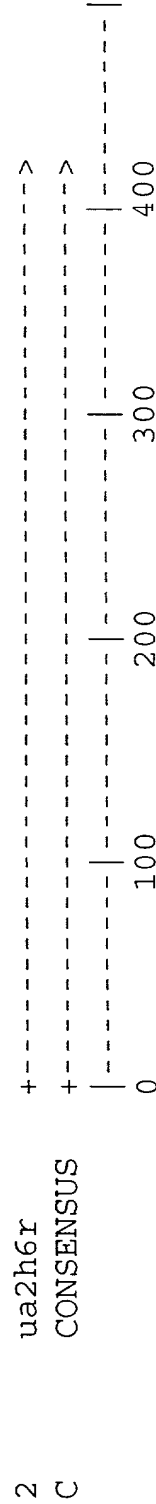
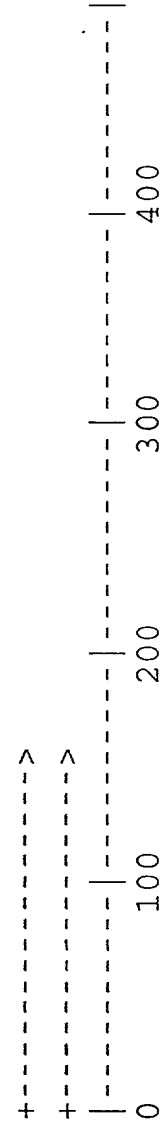


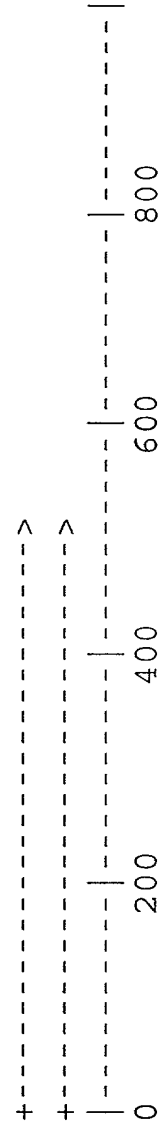
Fig. 8 - 8 of 180

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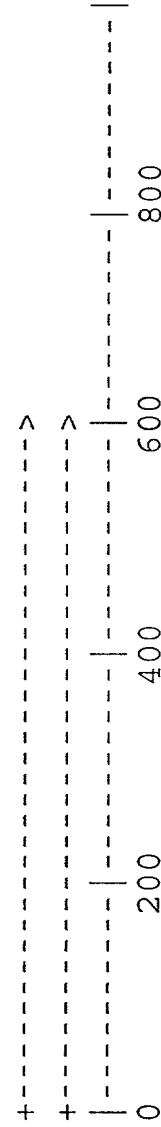
Contig: ua2h7r



Contig: ug001rcon



Contig: ug003



Contig: ug003meld

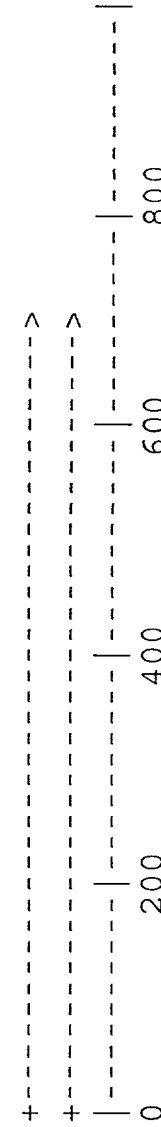
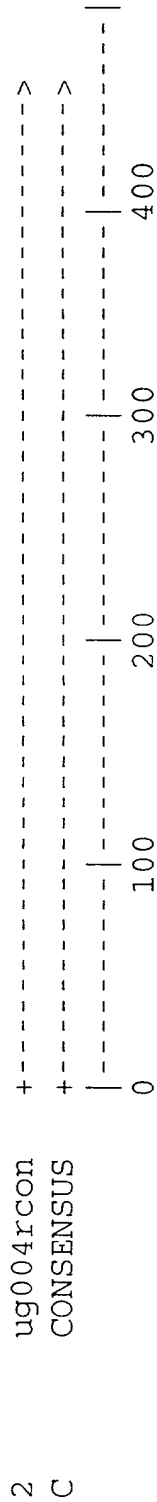


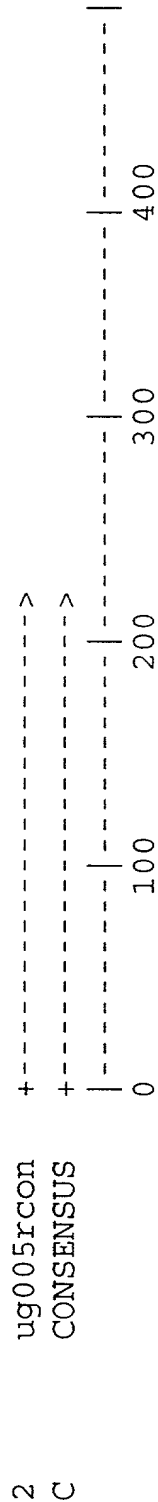
Fig. 8 - 9 of 180

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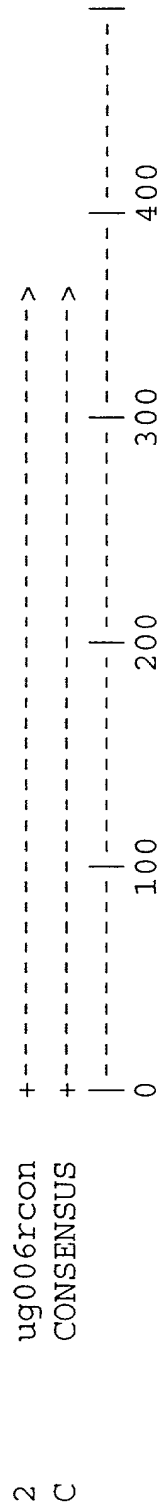
Contig: ug004rcon



Contig: ug005rcon



Contig: ug006rcon



Contig: ug006unsure

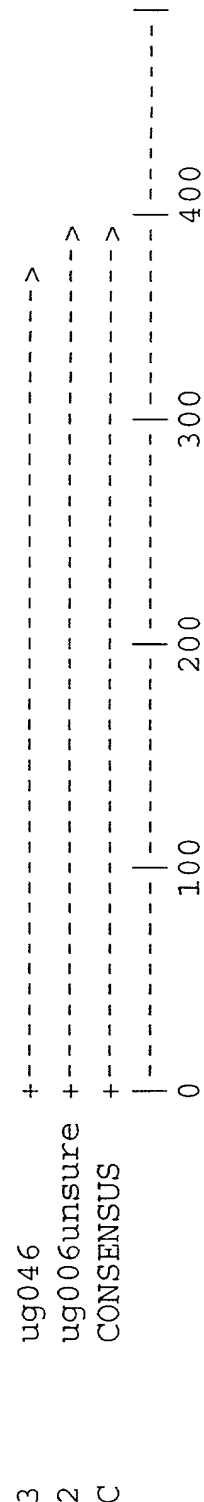
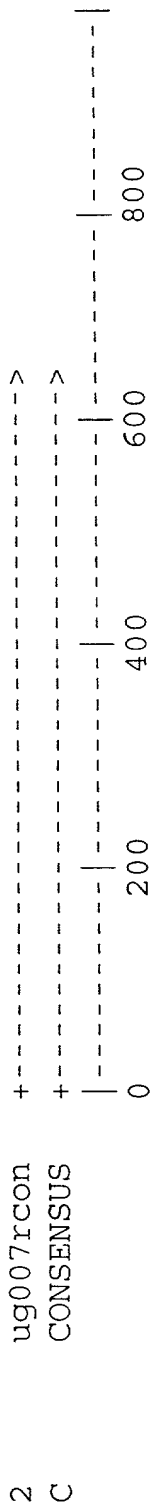


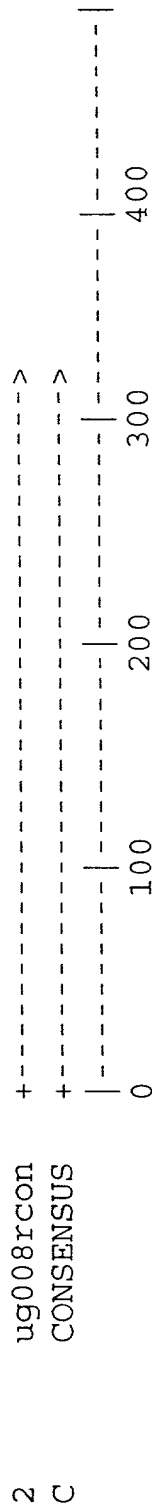
Fig. 8 - 10 of 180

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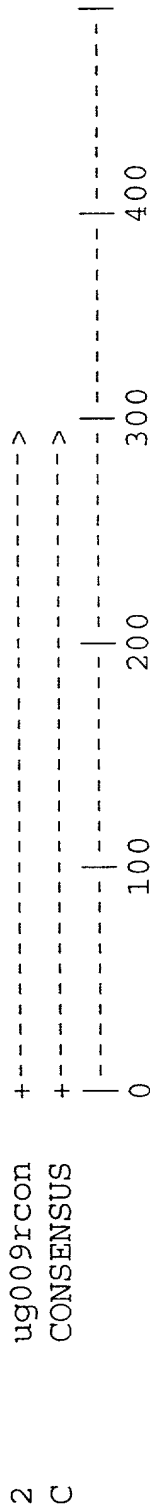
Contig: ug007rcon



Contig: ug008rcon



Contig: ug009rcon



Contig: ug010rcon

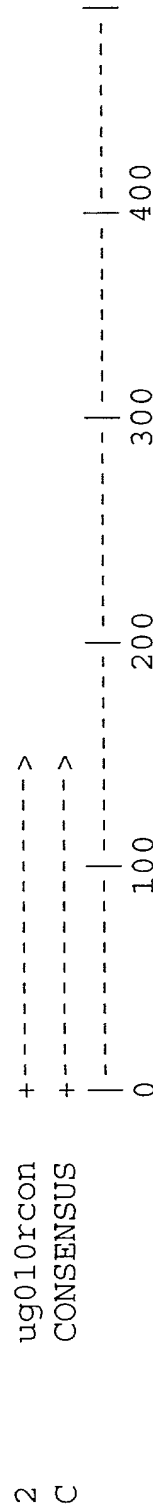


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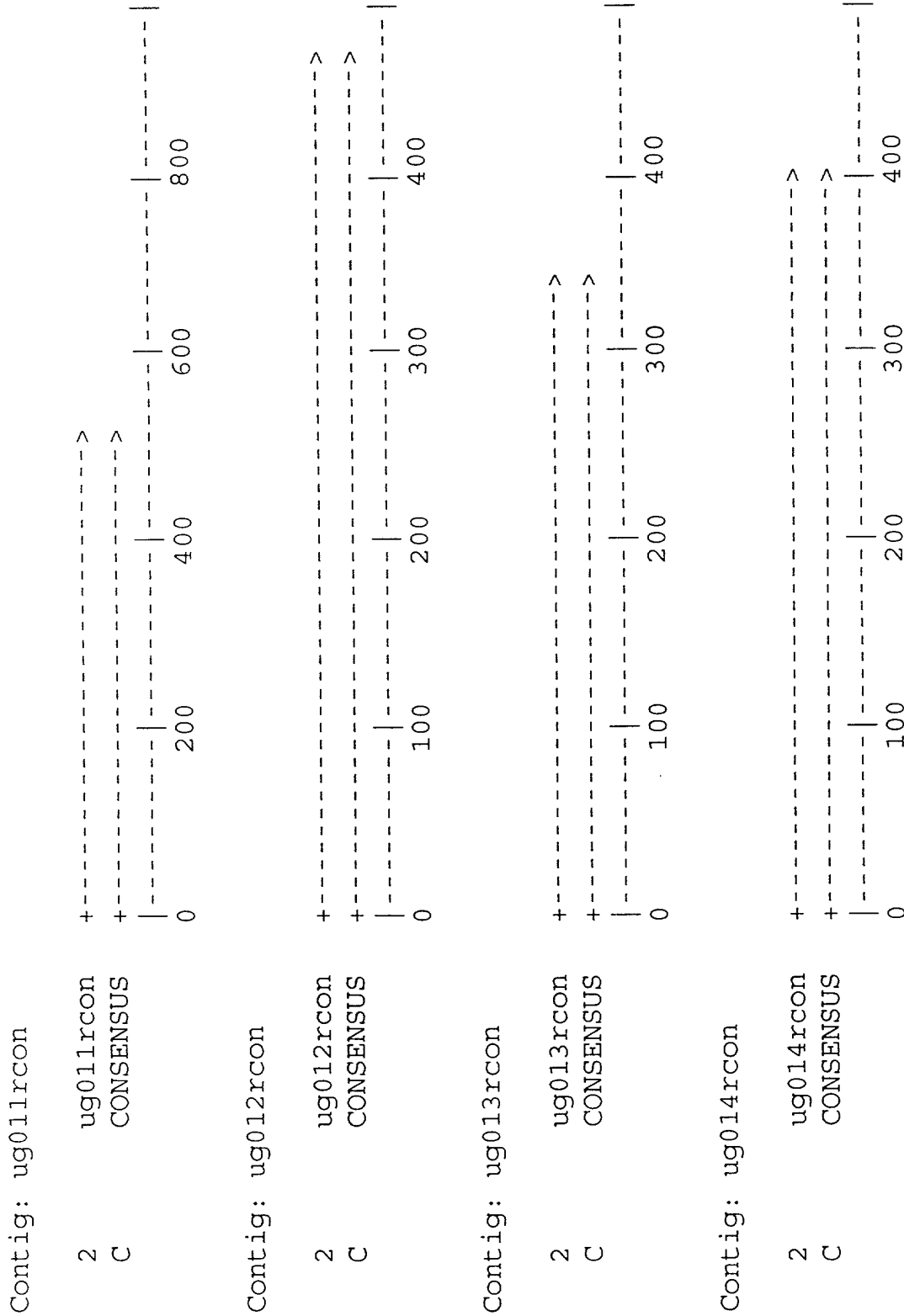
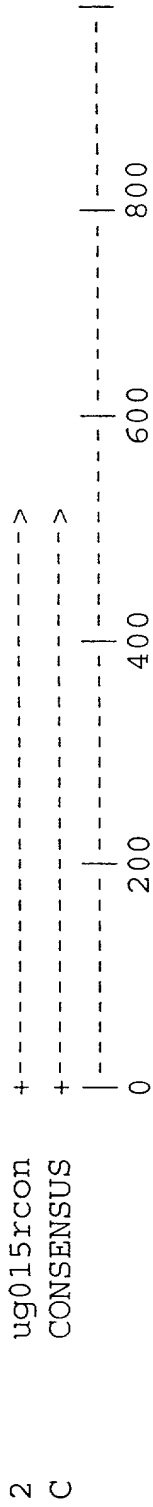


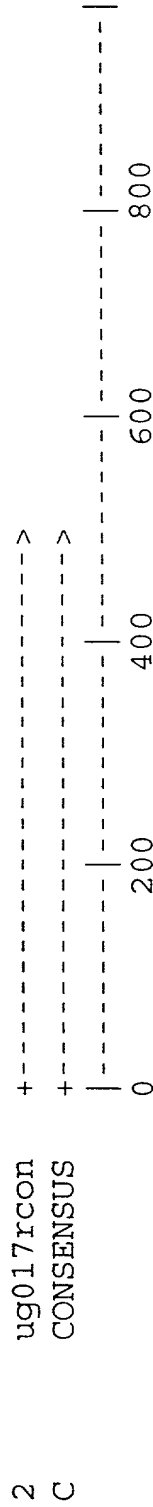
Fig. 8 - 12 of 180

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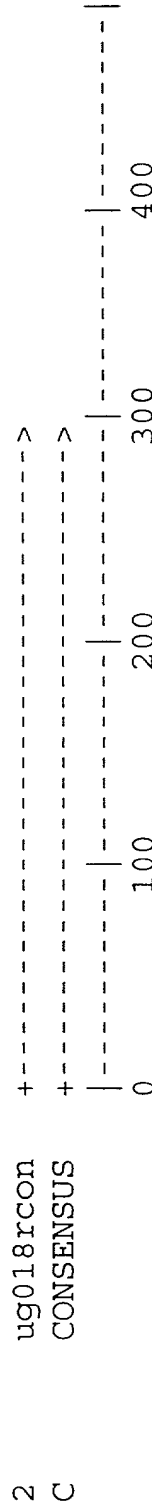
Contig: ug015rcon



Contig: ug017rcon



Contig: ug018rcon



Contig: ug019rcon

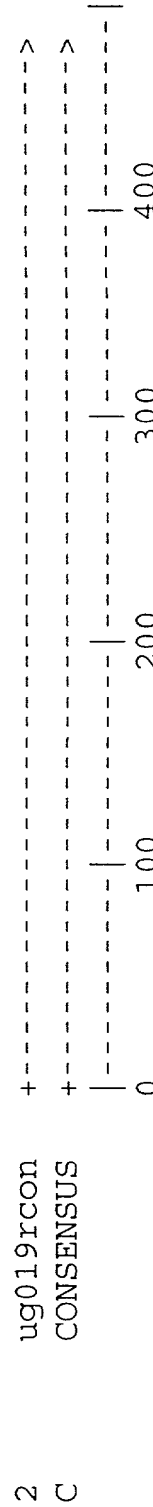
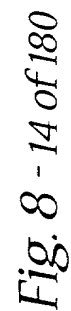
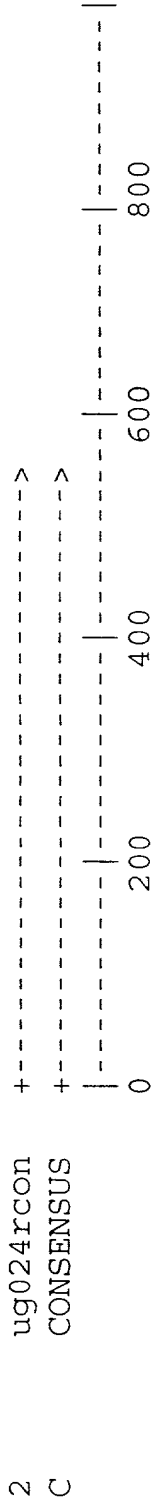


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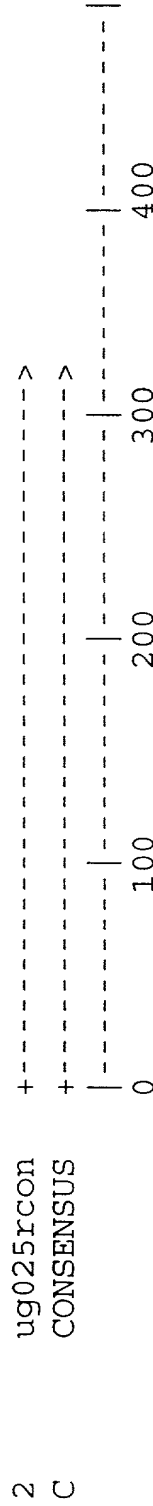


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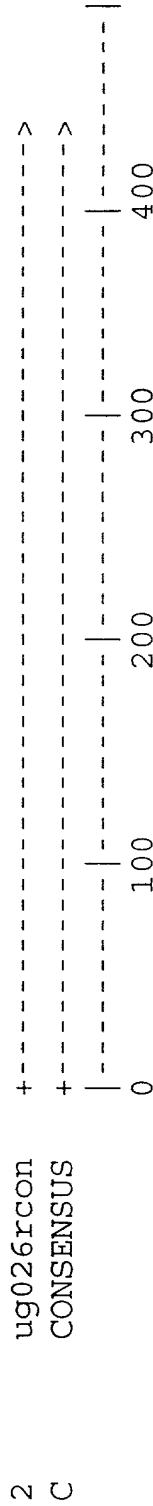
Contig: ug024rcon



Contig: ug025rcon



Contig: ug026rcon



Contig: ug027rcon

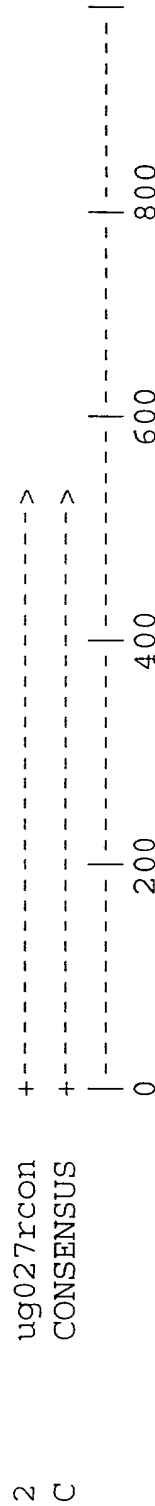


Fig. 8 - 15 of 180

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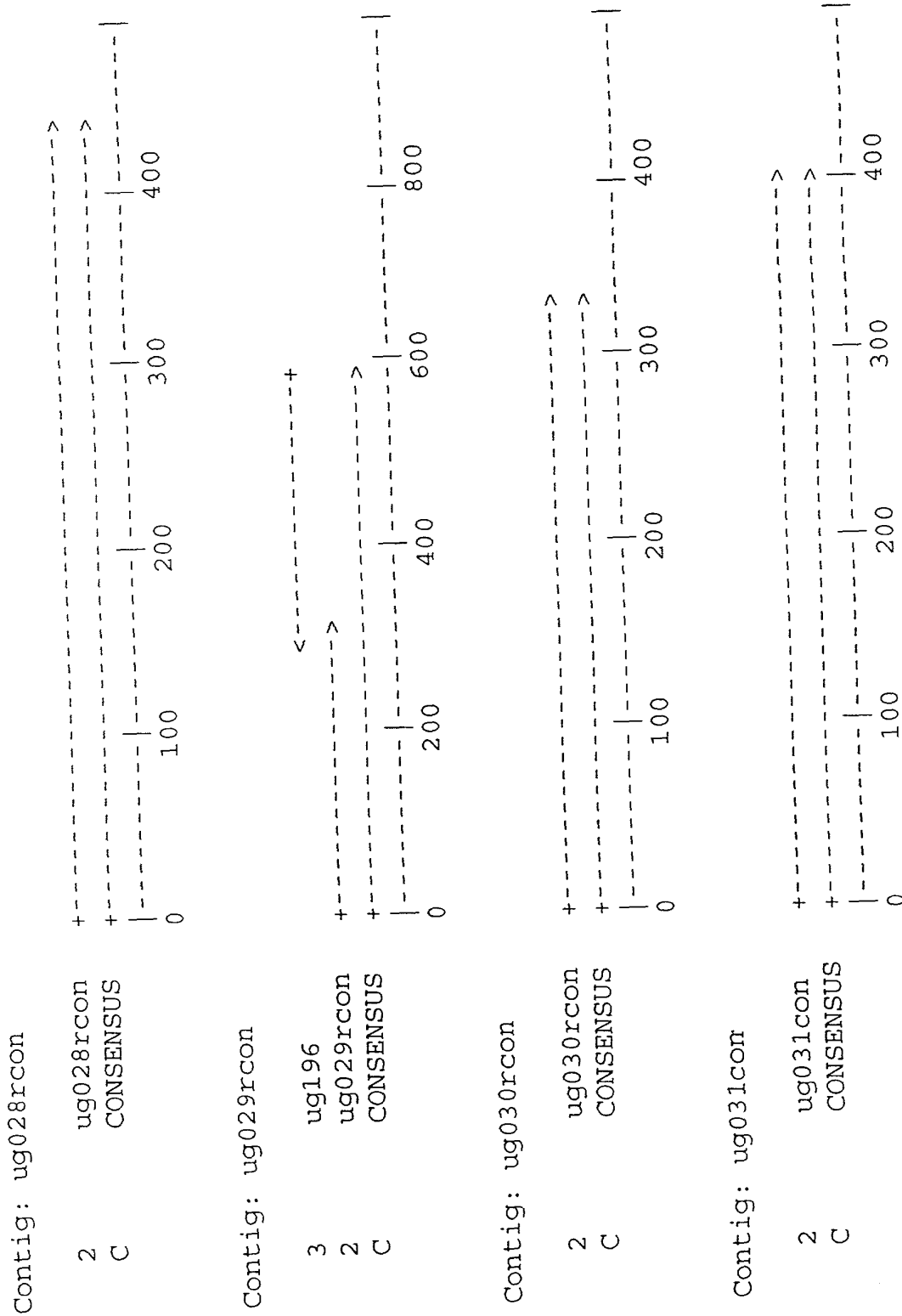
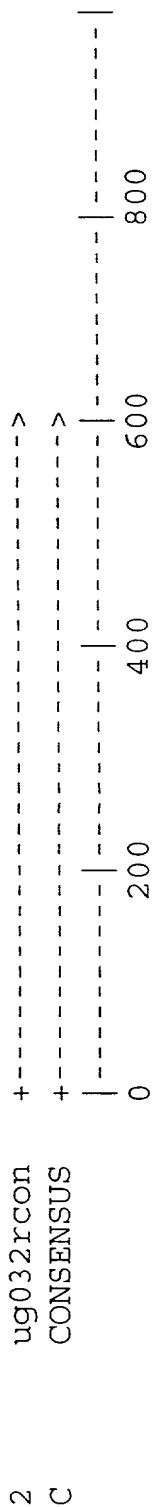


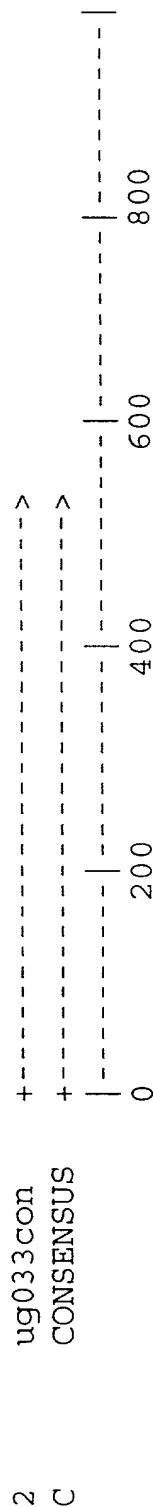
Fig. 8 - 16 of 180

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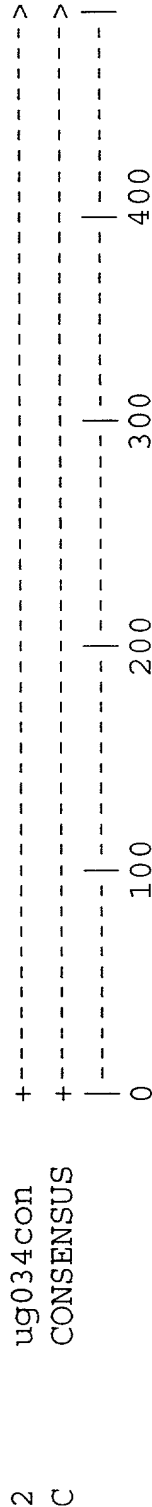
Contig: ug032rcon



Contig: ug033con



Contig: ug034con



Contig: ug035con

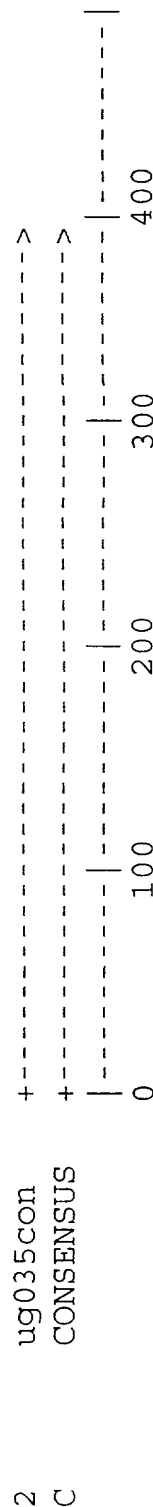


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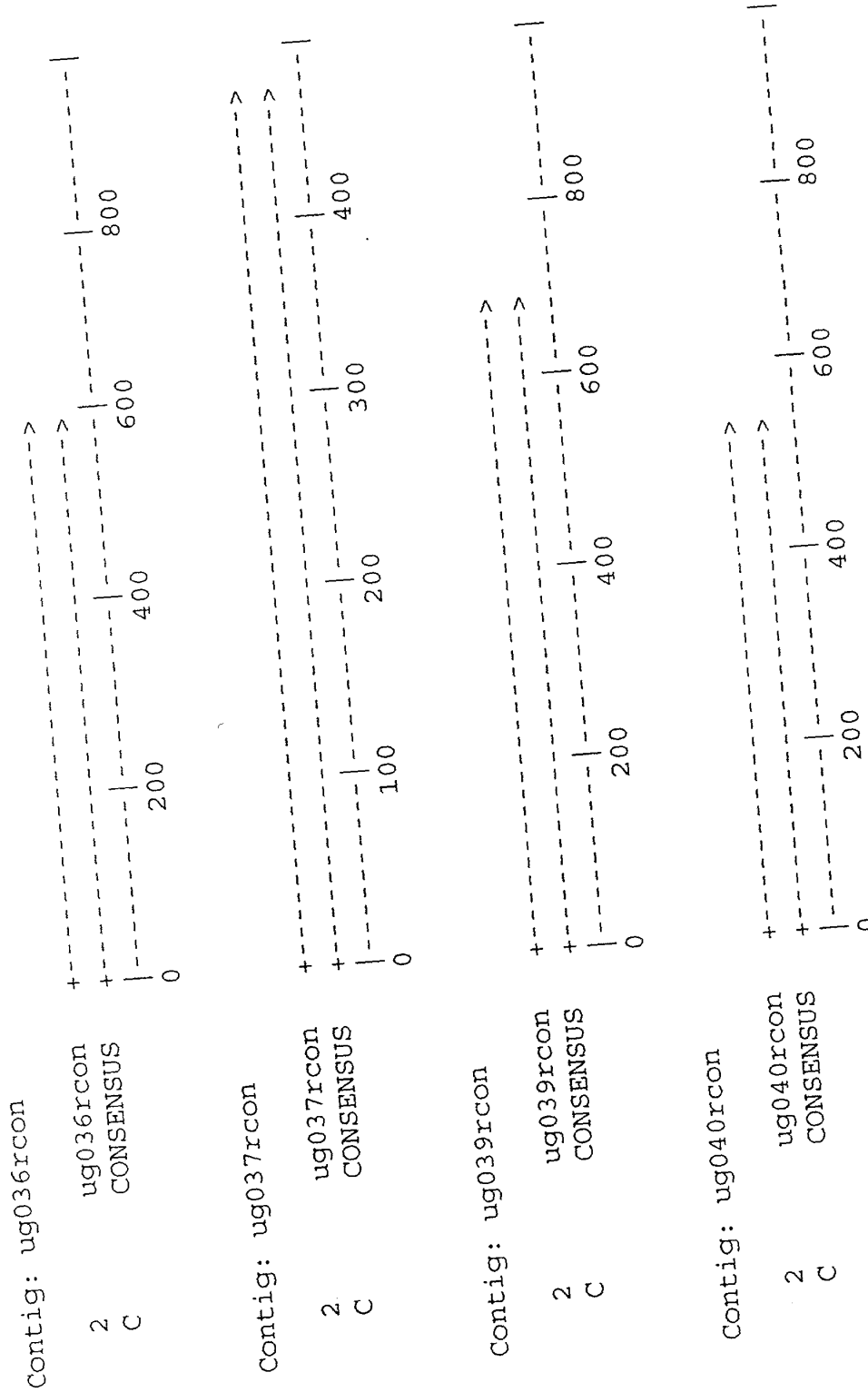
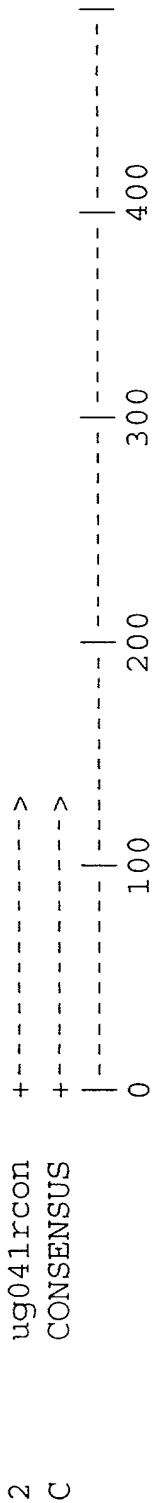


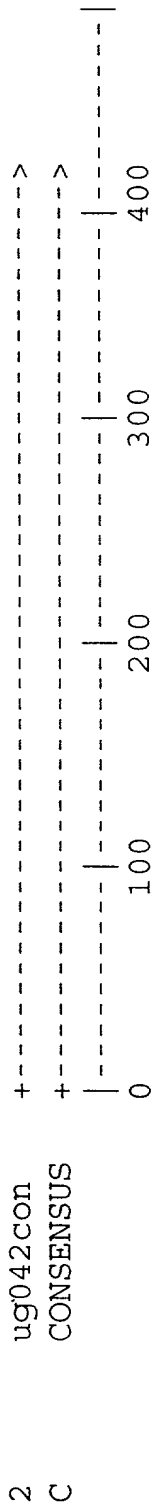
Fig. 8 - 18 of 180

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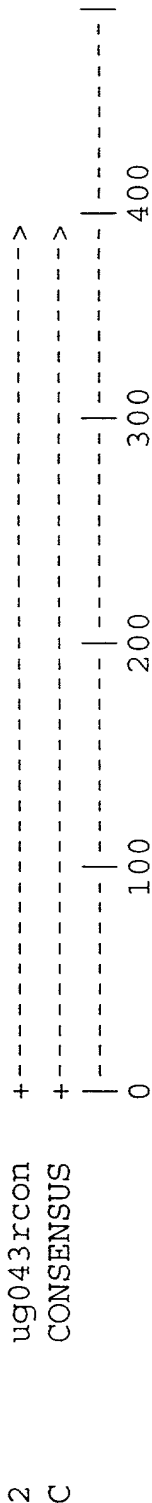
Contig: ug041rcon



Contig: ug042con



Contig: ug043rcon



Contig: ug044rcon

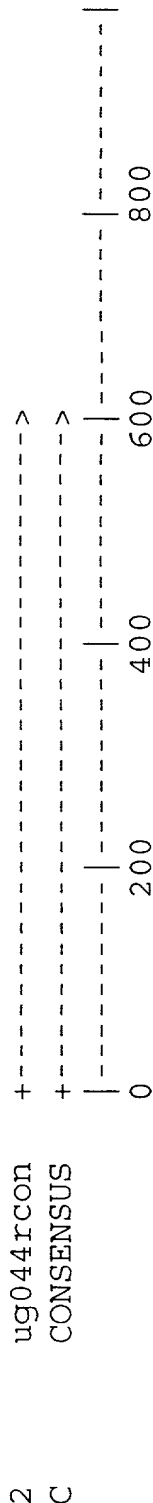
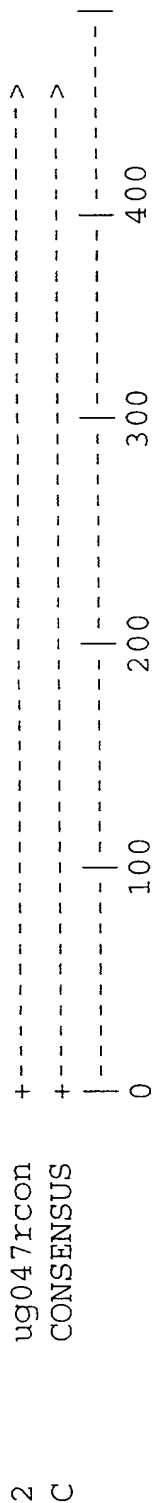


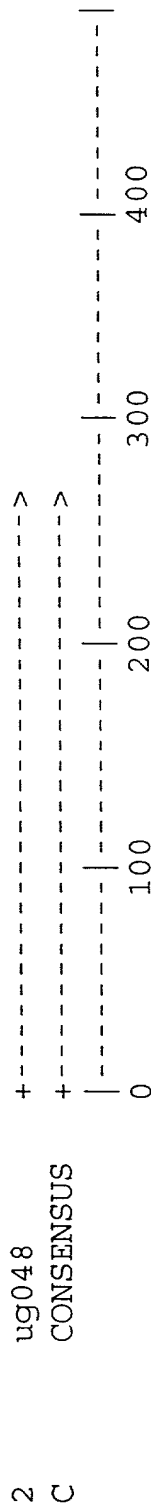
Fig. 8 - 19 of 180

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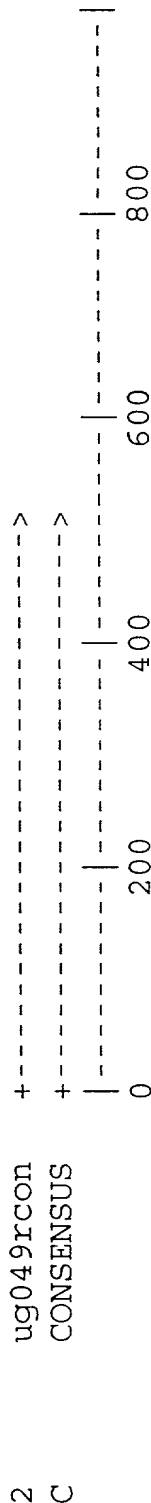
Contig: ug047rcon



Contig: ug048



Contig: ug049rcon



Contig: ug050rcon

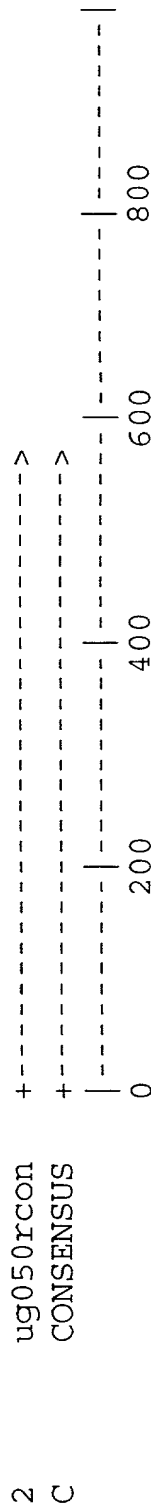
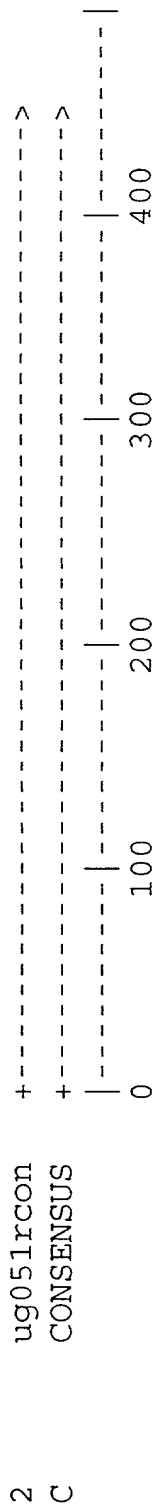


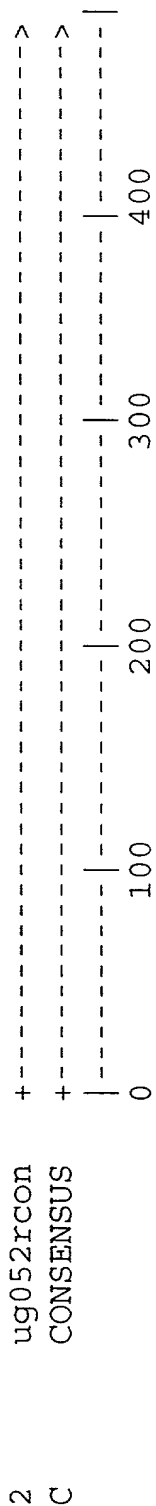
Fig. 8 - 20 of 180

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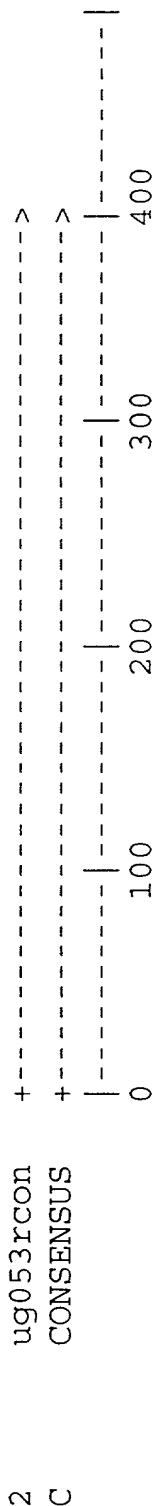
Contig: ug051rcon



Contig: ug052rcon



Contig: ug053rcon



Contig: ug054

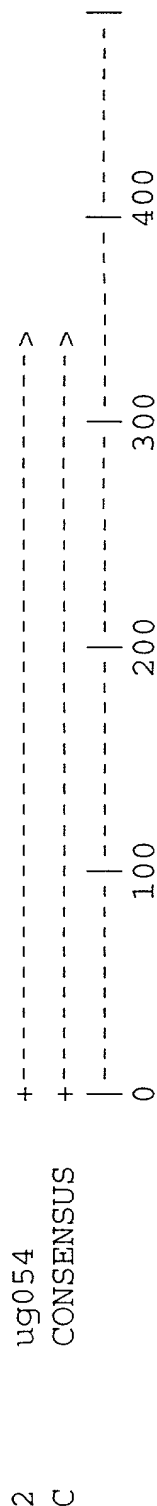
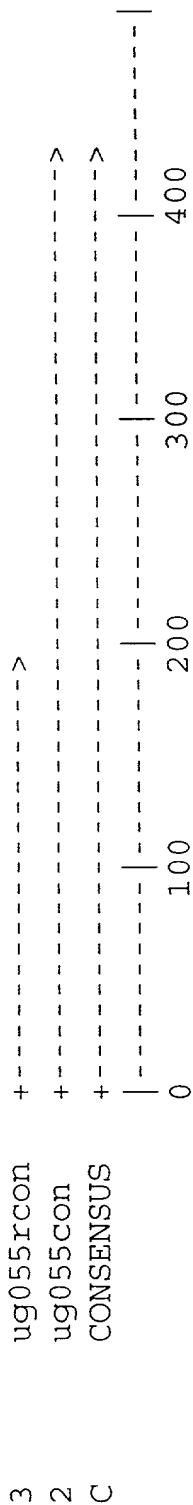


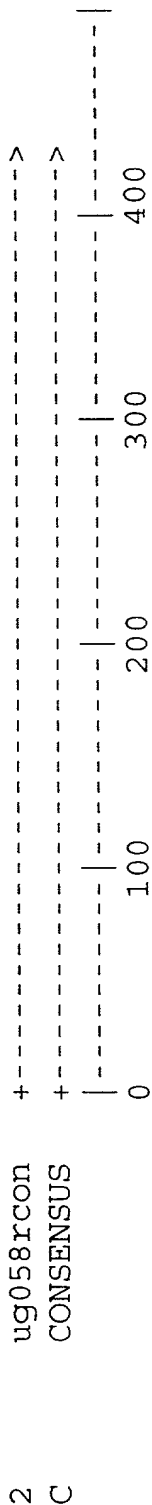
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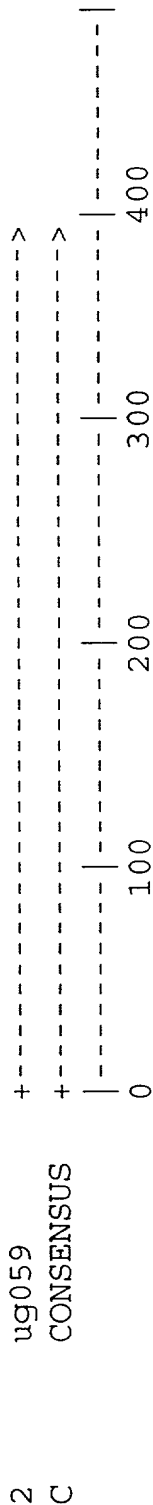
Contig: ug055con



Contig: ug058rcon



Contig: ug059



Contig: ug061rcon

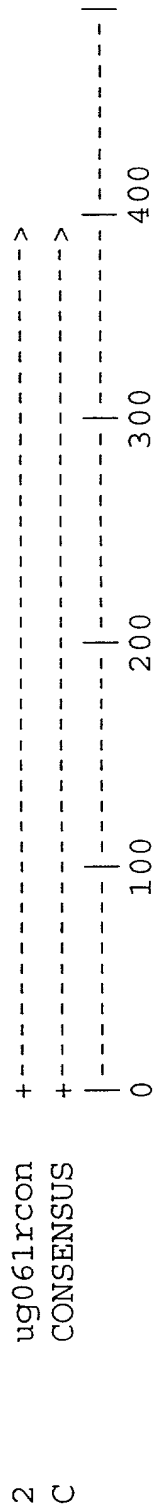
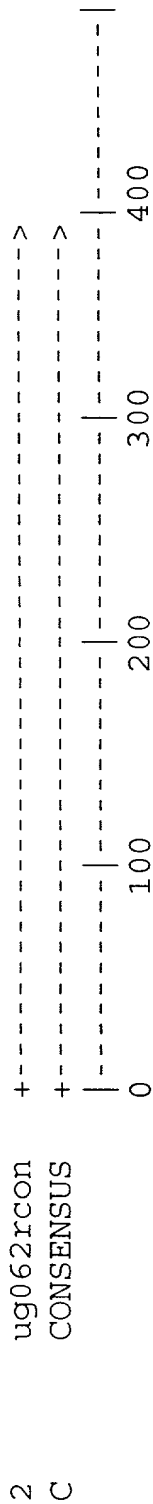


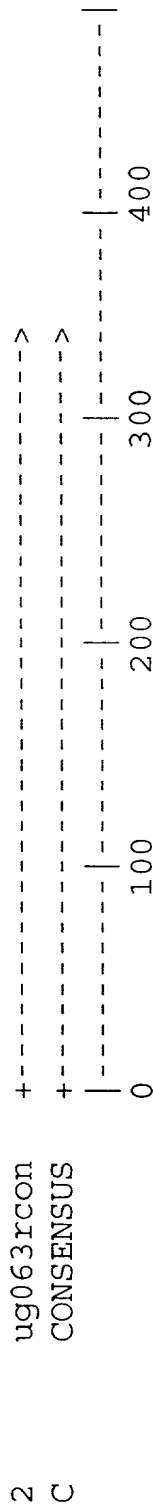
Fig. 8 - 22 of 180

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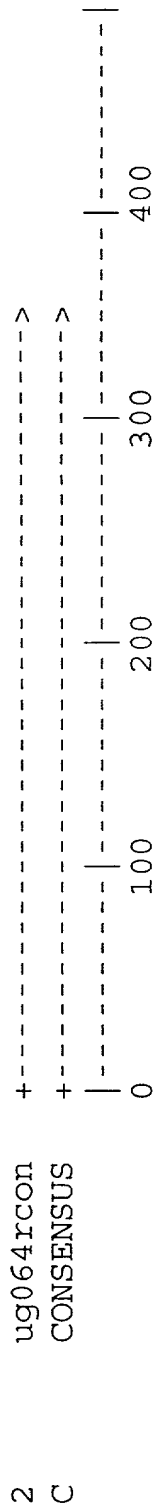
Contig: ug062rcon



Contig: ug063rcon



Contig: ug064rcon



Contig: ug065rcon

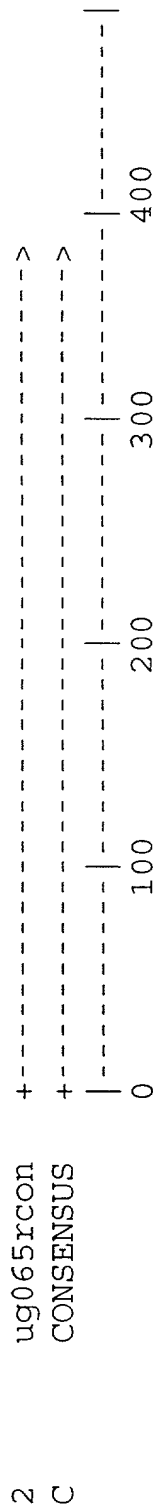
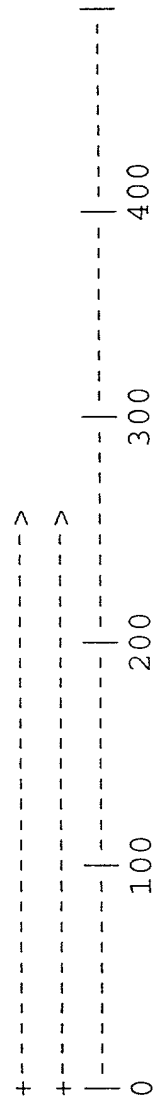


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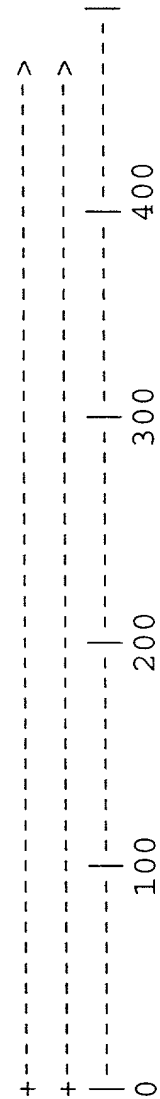
Contig: ug066rcon

2 ug066rcon
 C CONSENSUS



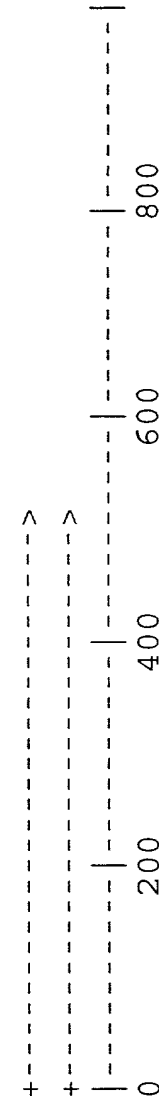
Contig: ug067rcon

2 ug067rcon
 C CONSENSUS



Contig: ug069rcon

2 ug069rcon
 C CONSENSUS



Contig: ug070rcon

2 ug070rcon
 C CONSENSUS

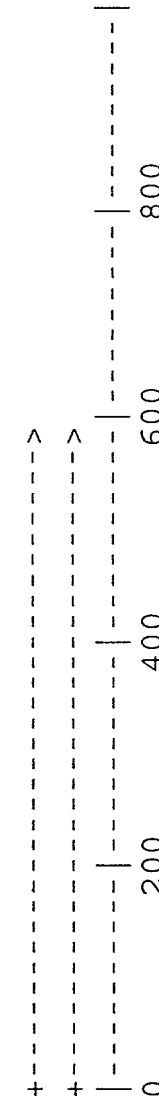
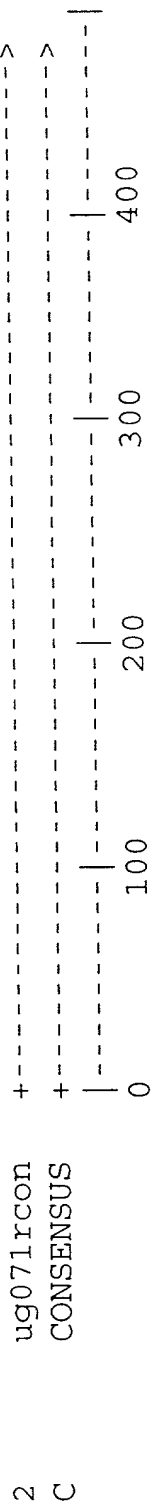


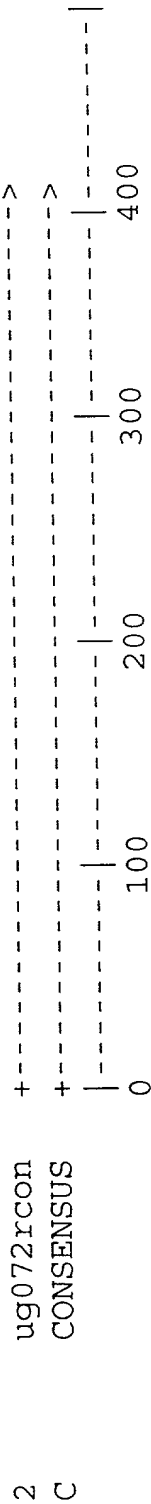
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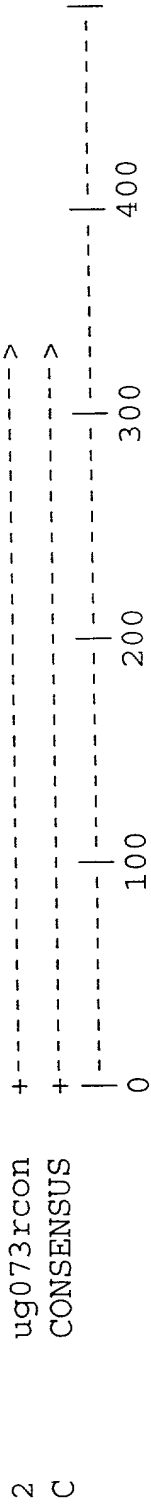
Contig: ug071rcon



Contig: ug072rcon



Contig: ug073rcon



Contig: ug074rcon

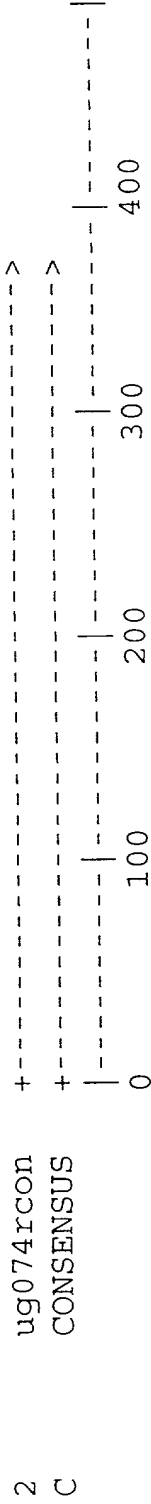
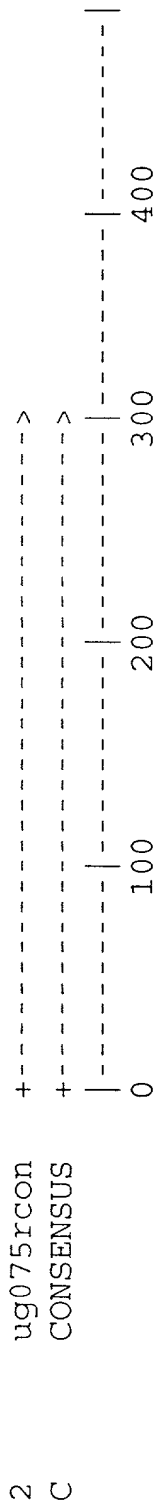


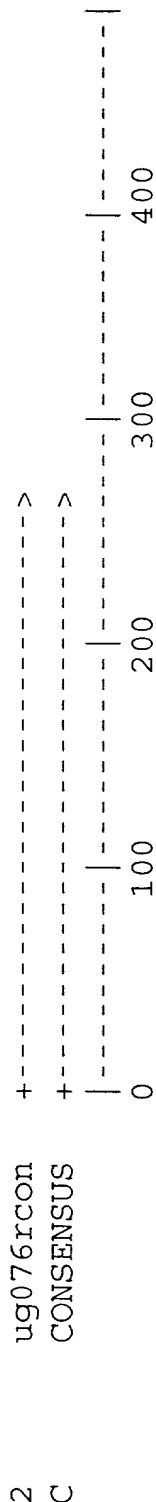
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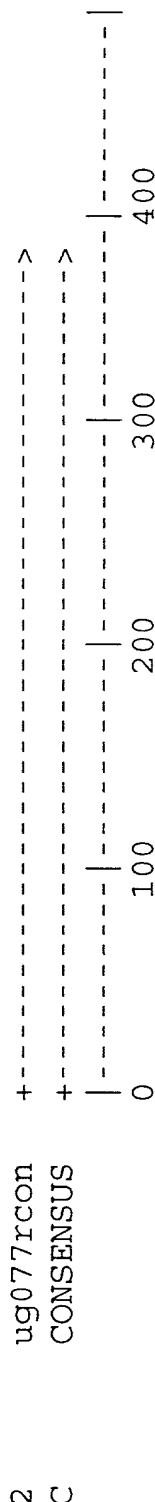
Contig: ug075rcon



Contig: ug076rcon



Contig: ug077rcon



Contig: ug078rcon

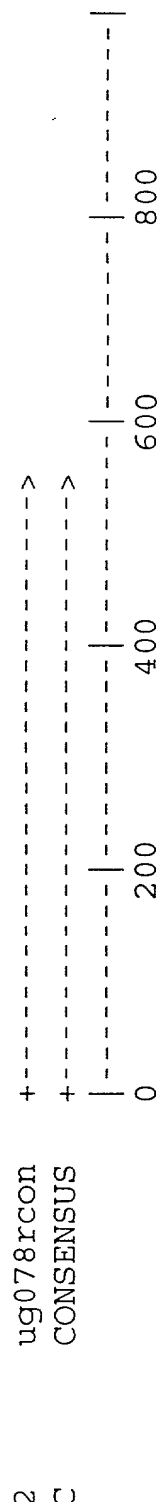
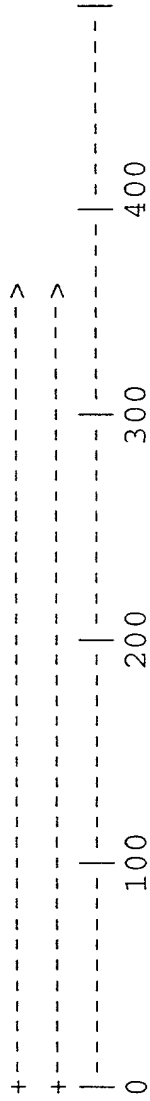


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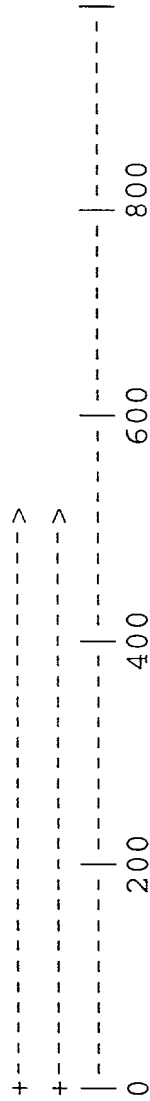
Contig: ug079rcon

2 ug079rcon
C CONSENSUS



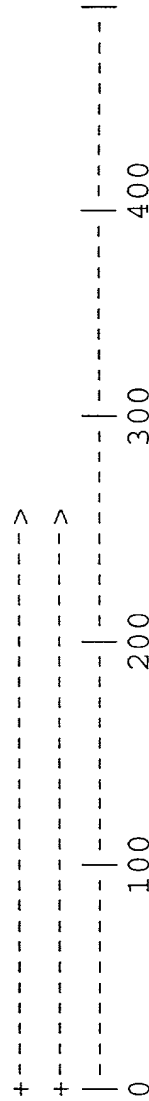
Contig: ug081rcon

2 ug081rcon
C CONSENSUS



Contig: ug084rcon

2 ug084rcon
C CONSENSUS



Contig: ug085rcon

2 ug085rcon
C CONSENSUS

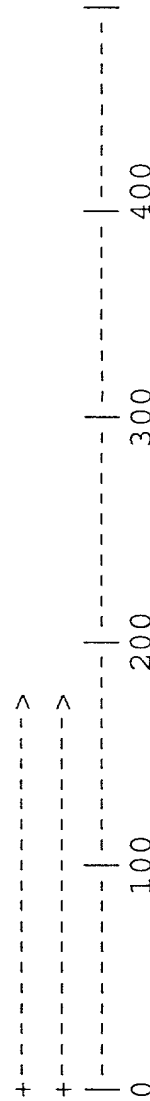
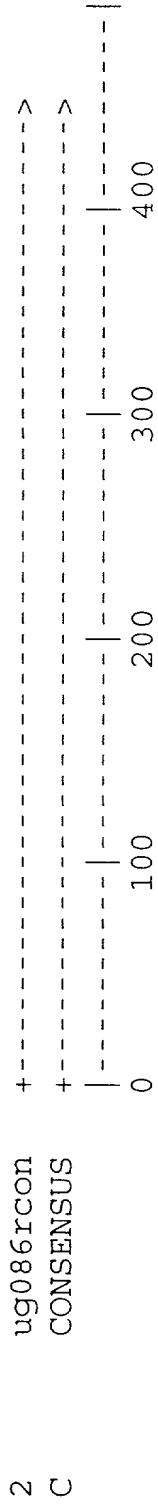


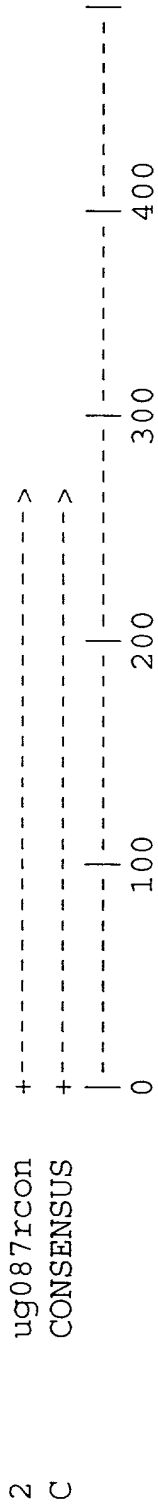
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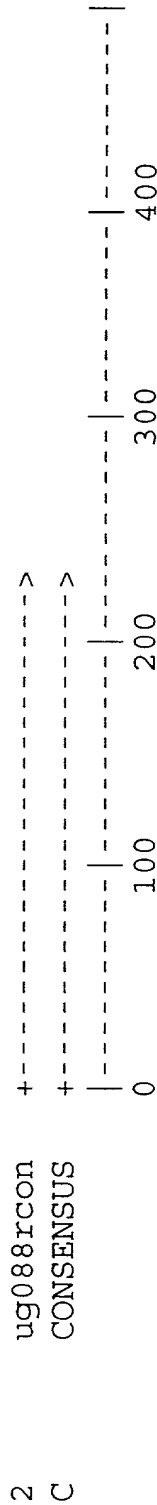
Contig: ug086rcon



Contig: ug087rcon



Contig: ug088rcon



Contig: ug089rcon

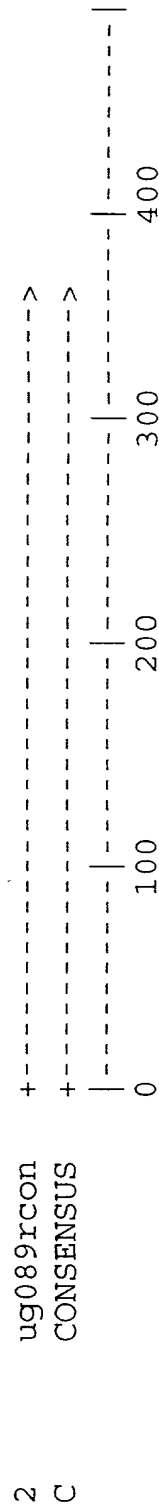
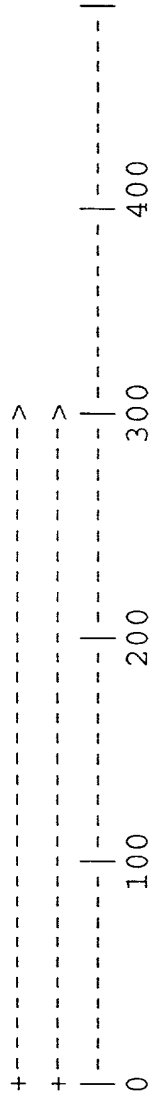


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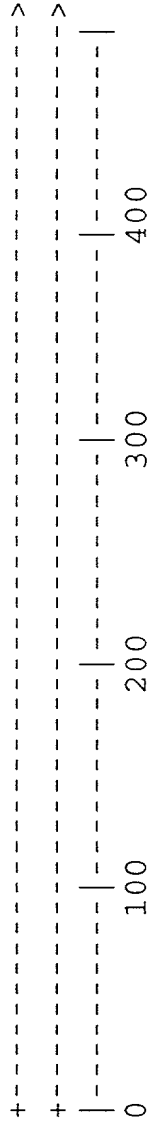
Contig: ug090rcon

2 ug090rcon
C CONSENSUS



Contig: ug092ft

2 ug092ft
C CONSENSUS



Contig: ug092ors

3 ug092rcon
2 ug092ors
C CONSENSUS

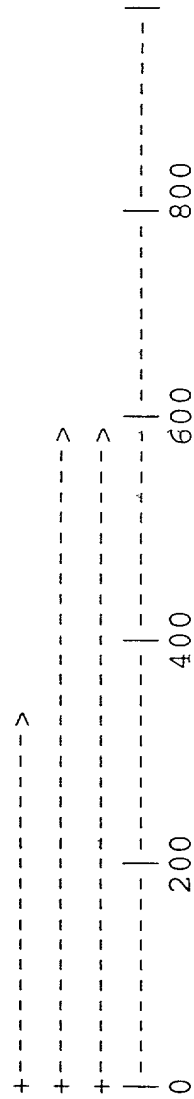
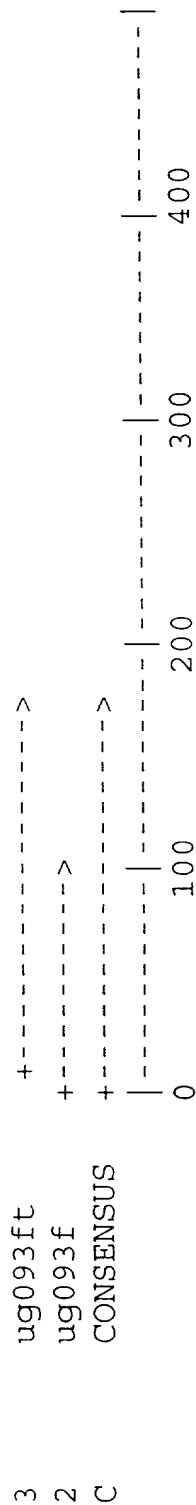


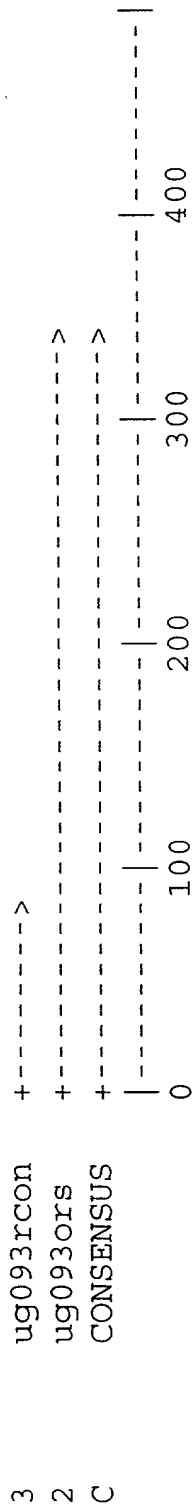
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Contig: ug093f



Contig: ug093ors



Contig: ug094rcon

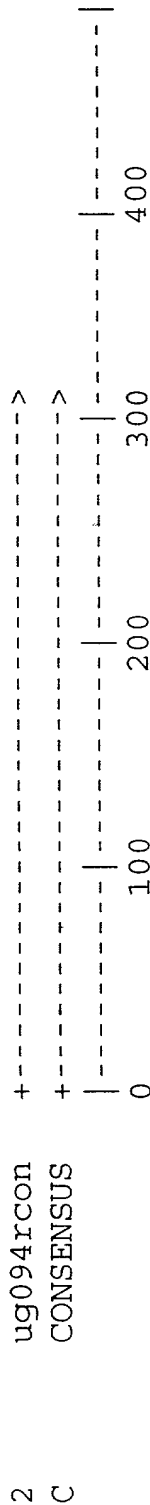


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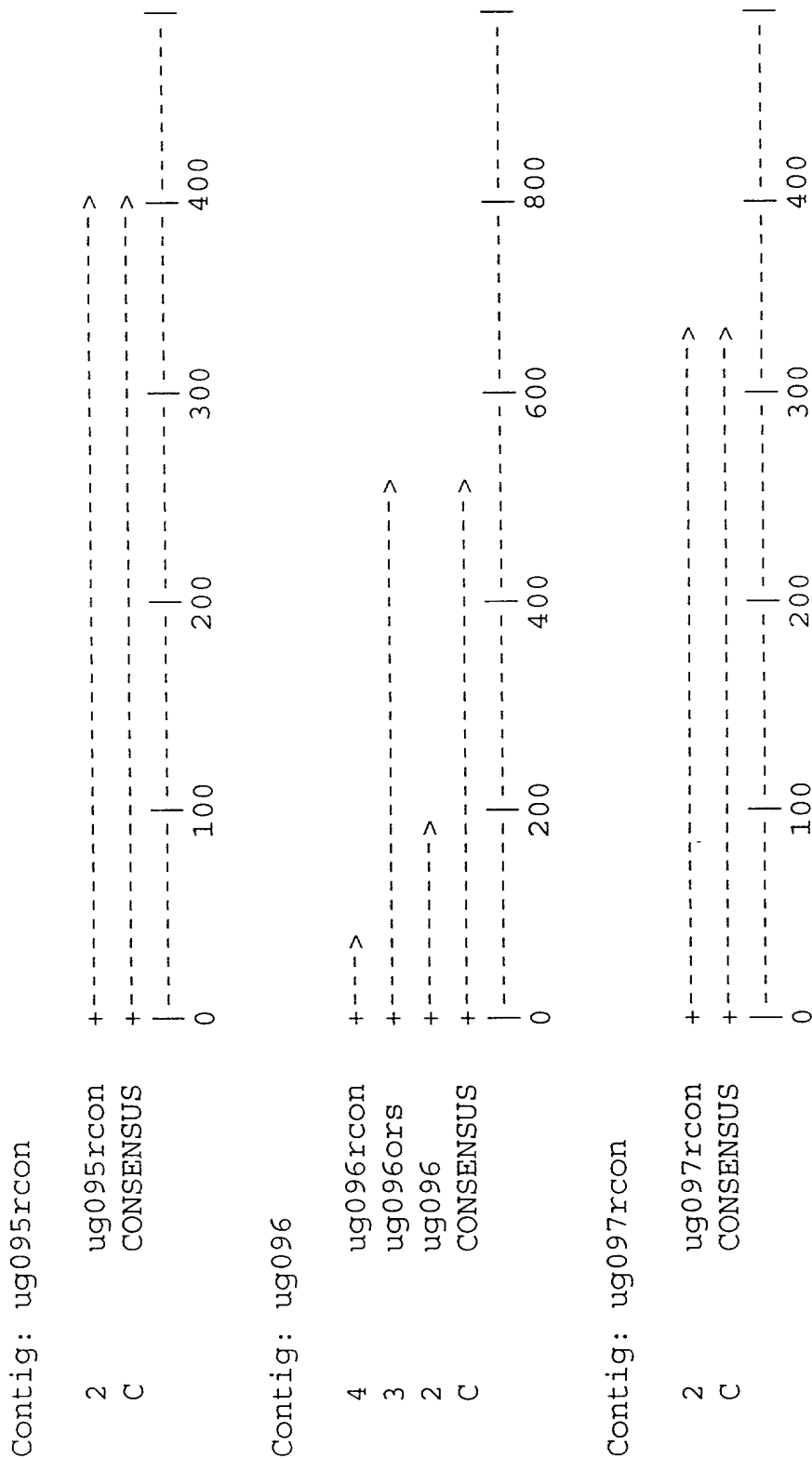
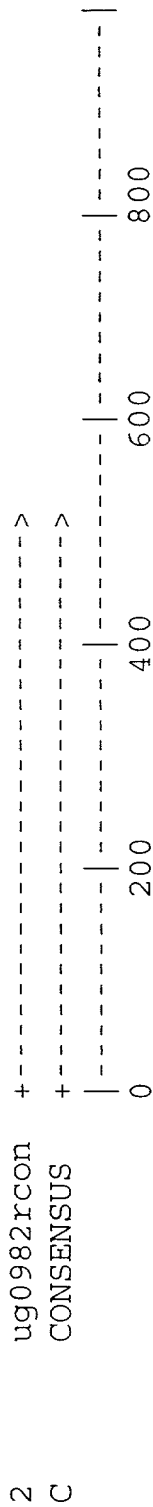


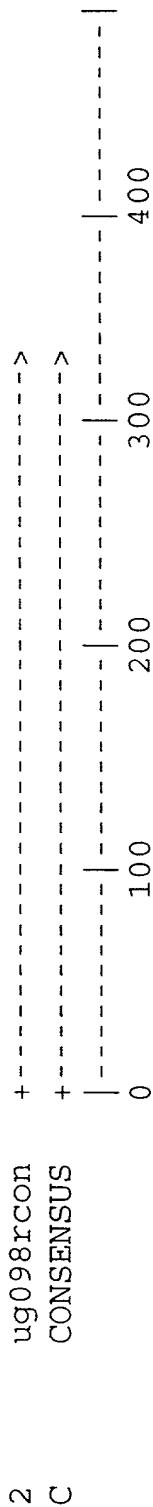
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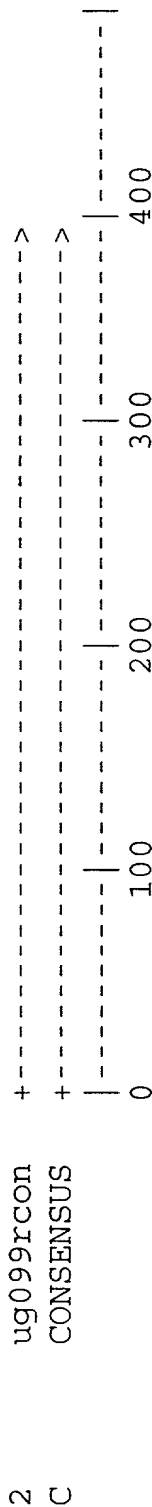
Contig: ug0982rcon



Contig: ug098rcon



Contig: ug099rcon



Contig: ug101cons

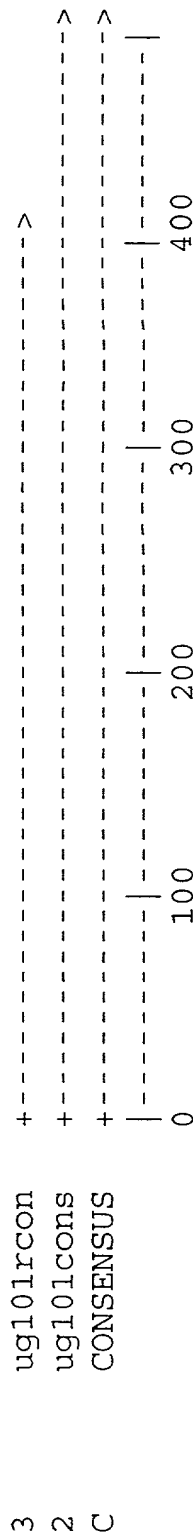
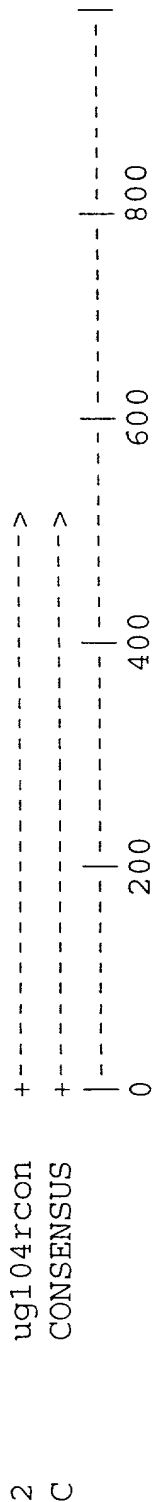


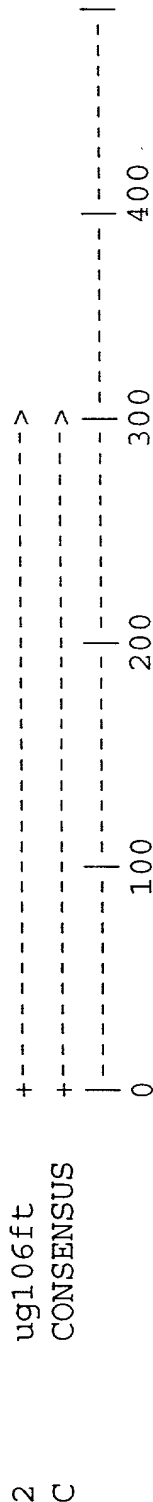
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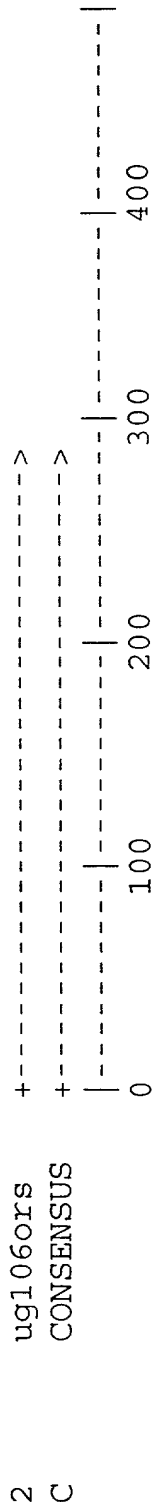
Contig: ug104rcon



Contig: ug106ft



Contig: ug106ors



Contig: ug106rcon

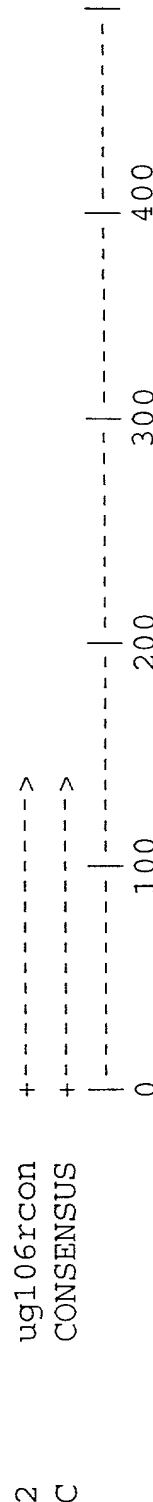
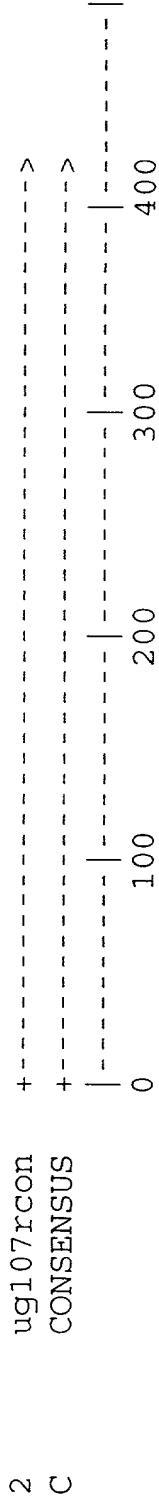


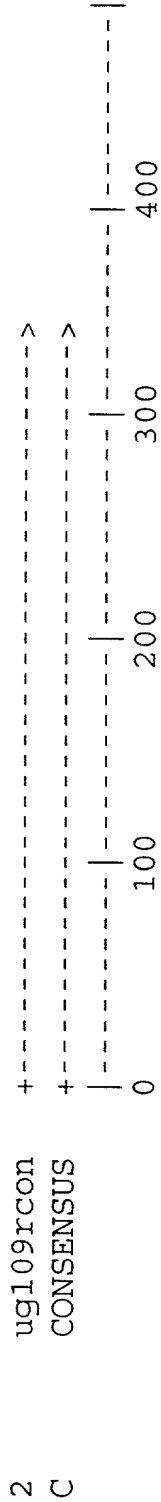
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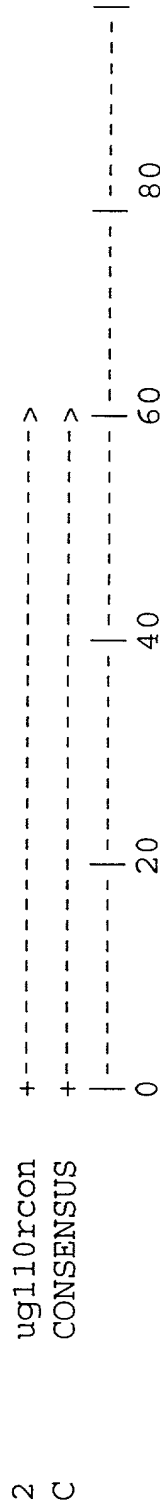
Contig: ug107rcon



Contig: ug109rcon



Contig: ug110rcon



Contig: ug111nov

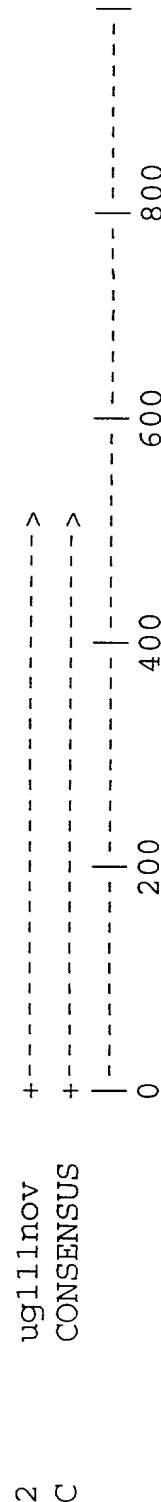


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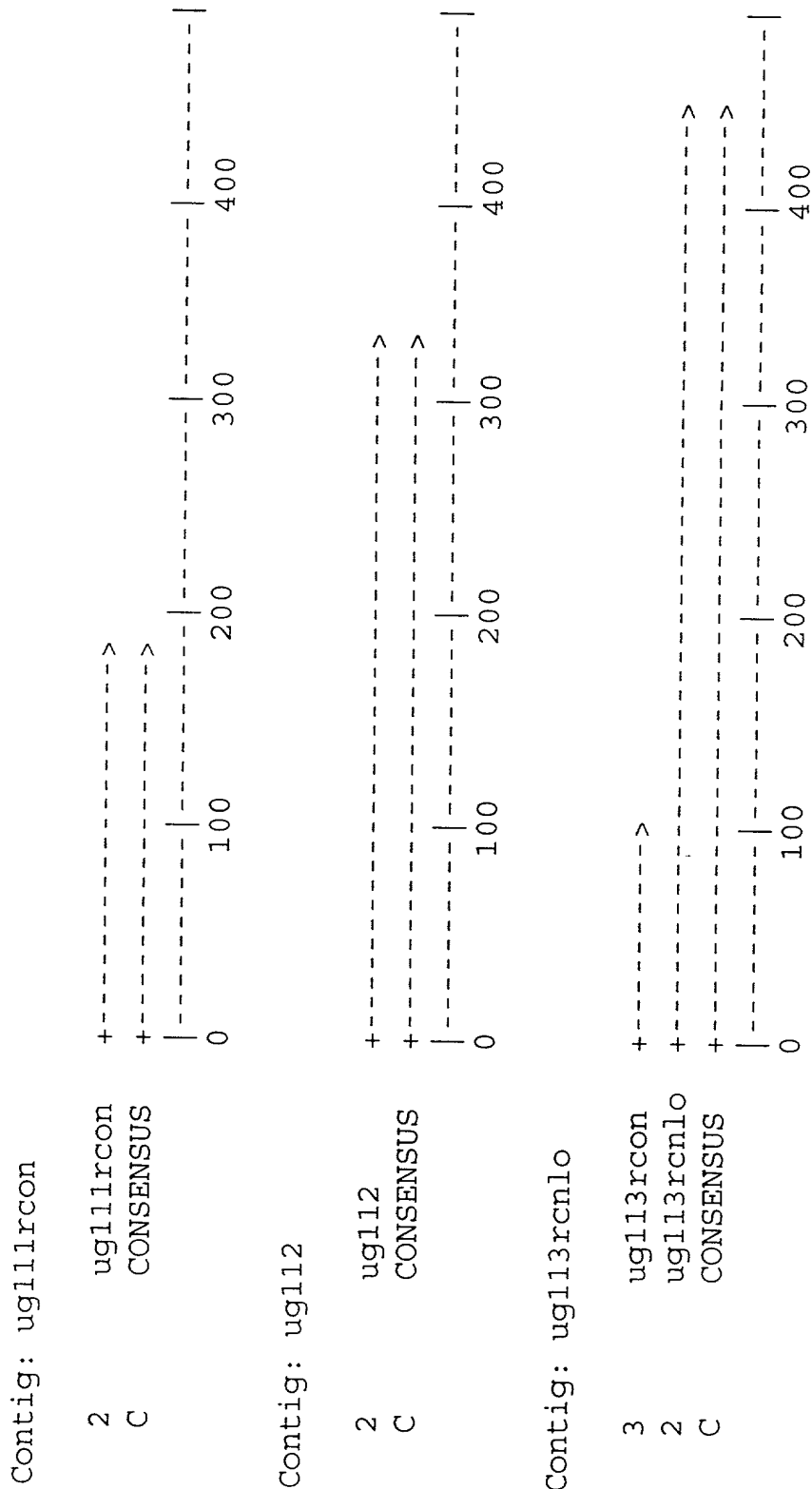
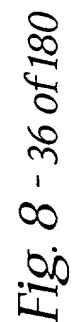
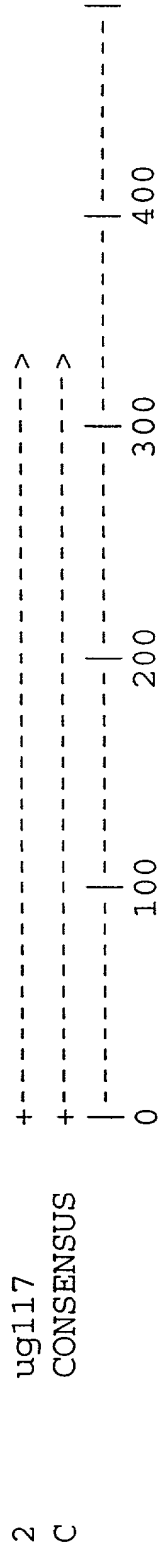


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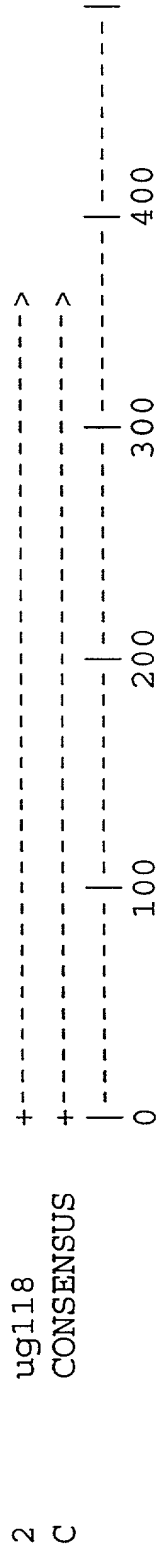


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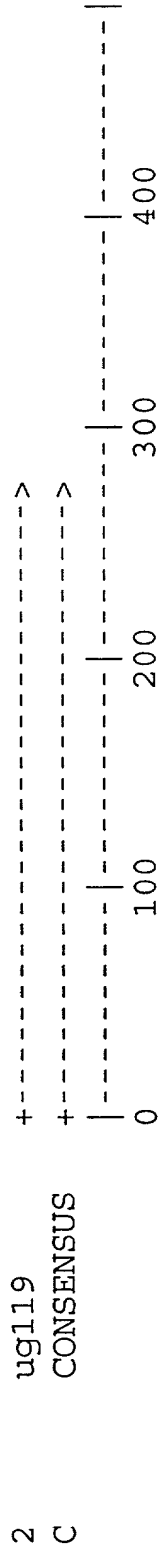
Contig: ug117



Contig: ug118



Contig: ug119



Contig: ug120fmin

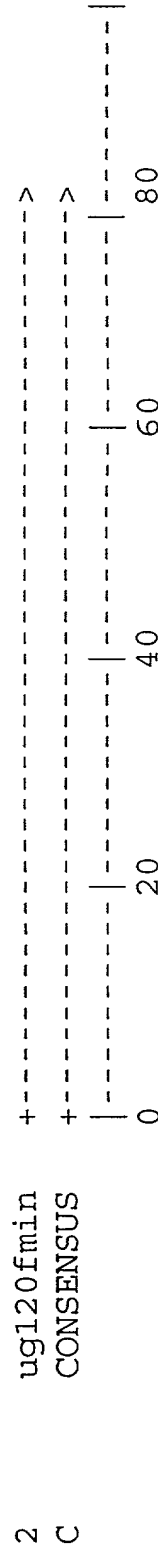
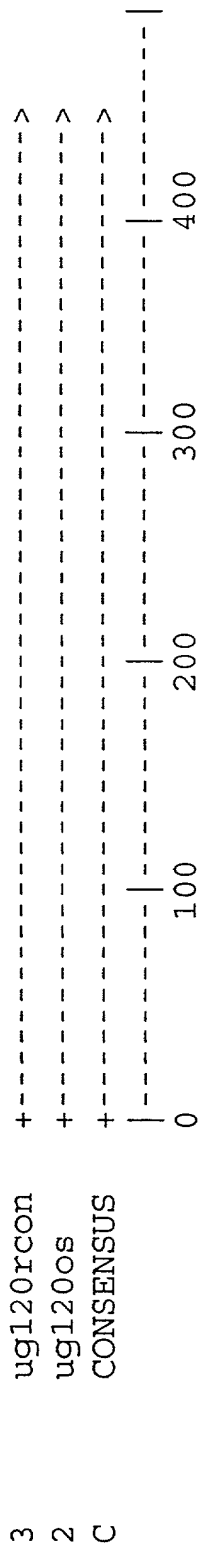


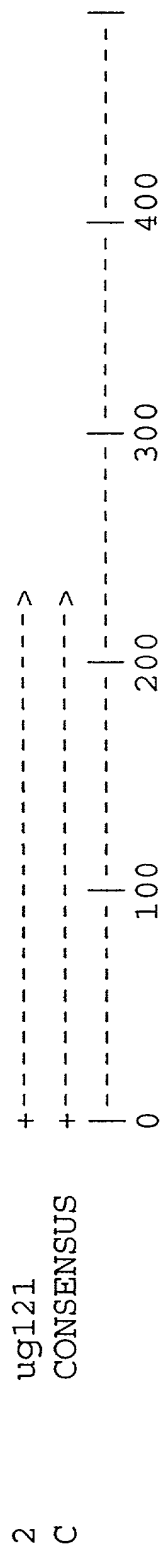
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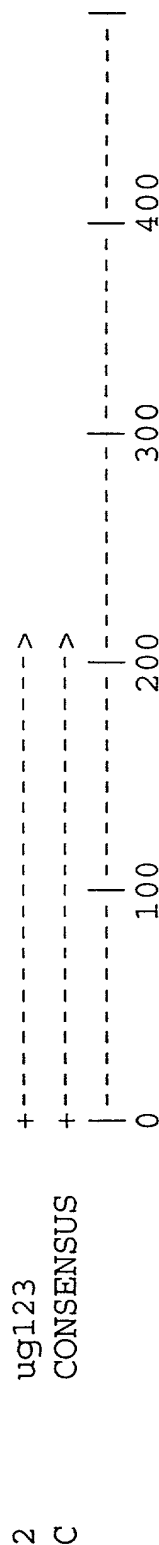
Contig: ug120os



Contig: ug121



Contig: ug123



Contig: ug125

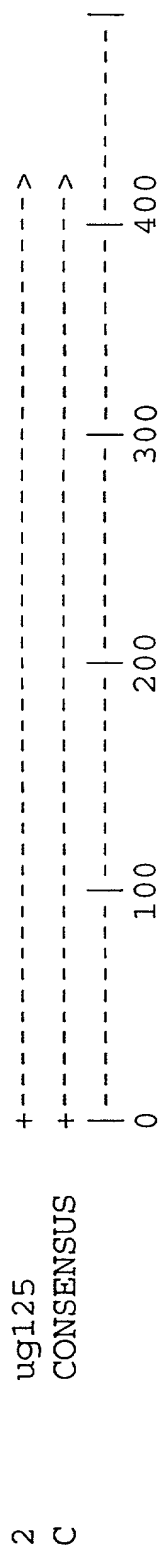
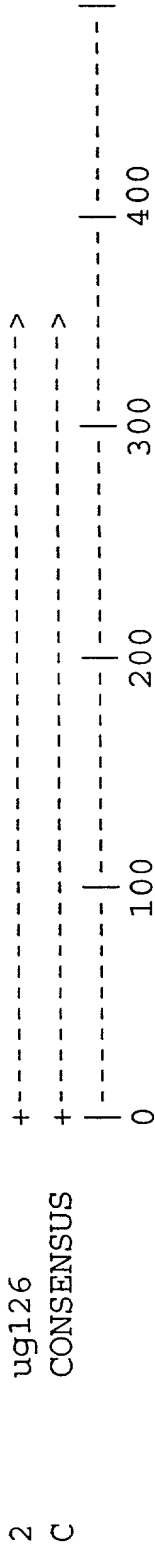


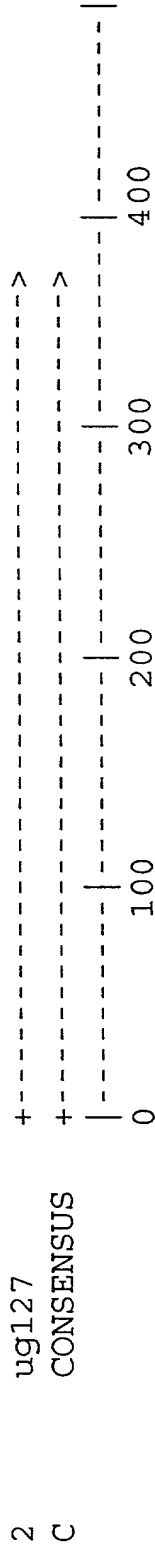
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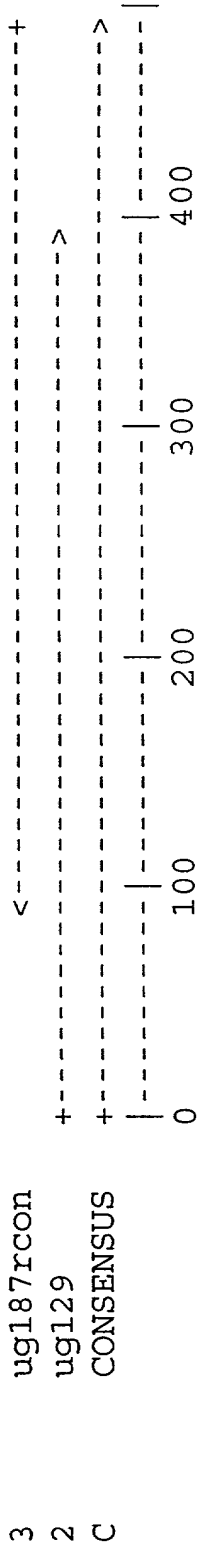
Contig: ug126



Contig: ug127



Contig: ug129



Contig: ug130

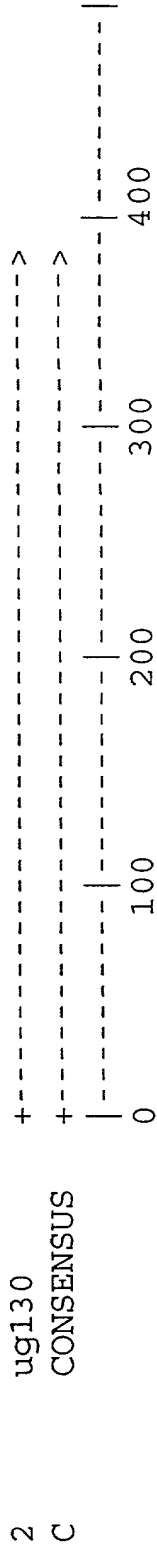
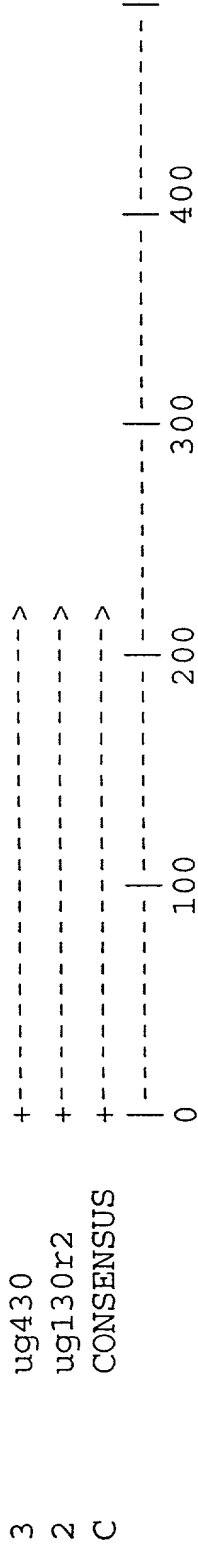


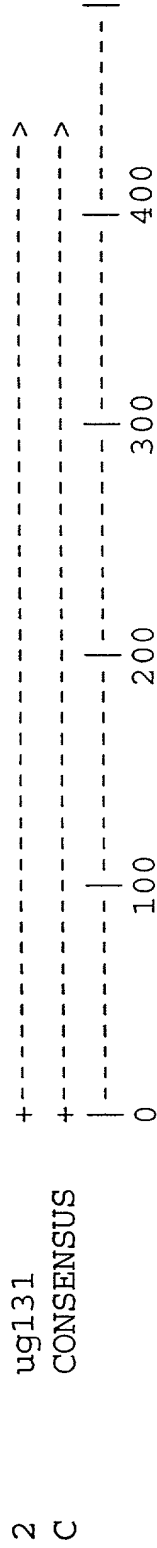
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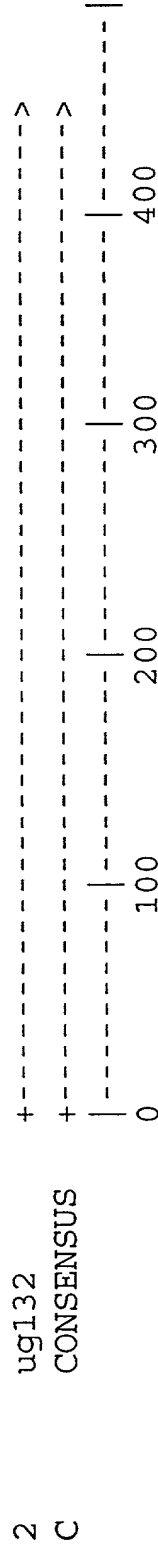
Contig: ug130r2



Contig: ug131



Contig: ug132



Contig: ug133

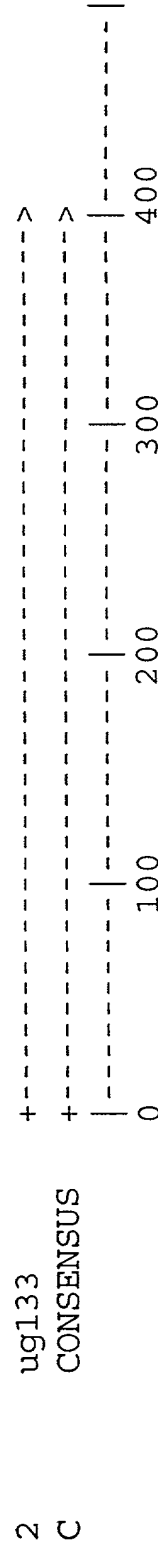
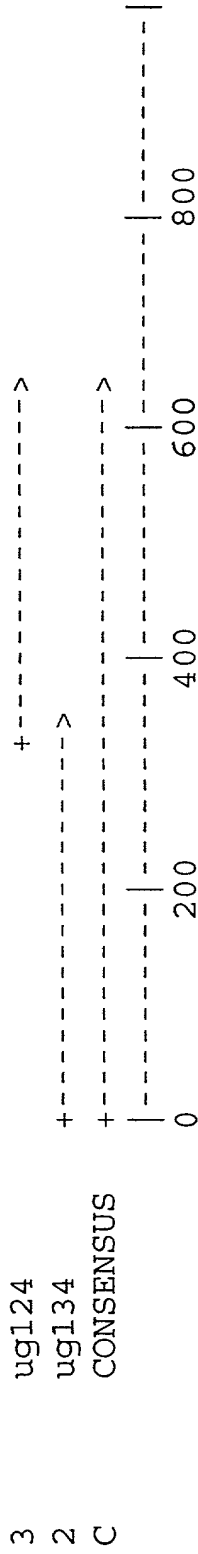


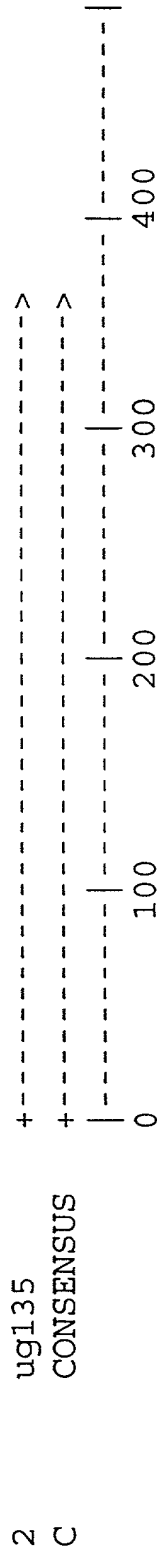
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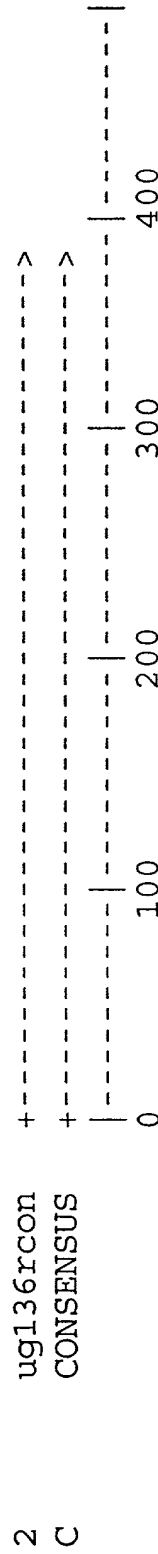
Contig: ug134



Contig: ug135



Contig: ug136rcon



Contig: ug138

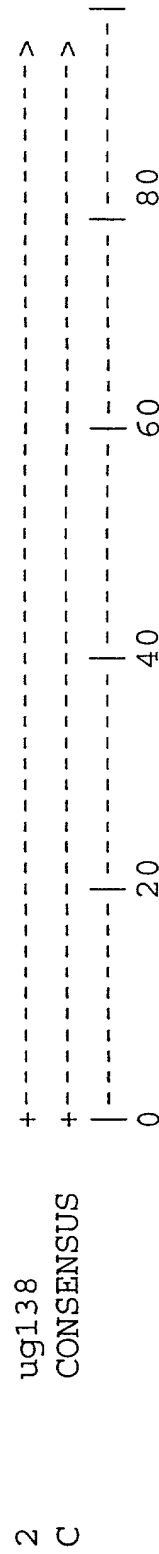
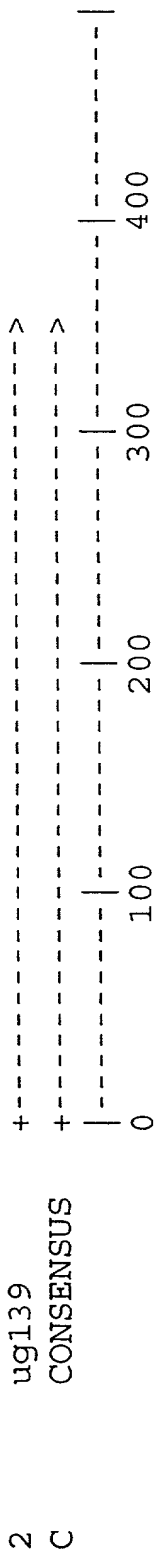


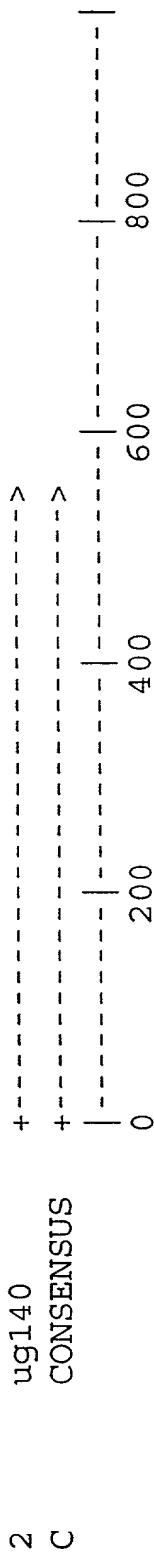
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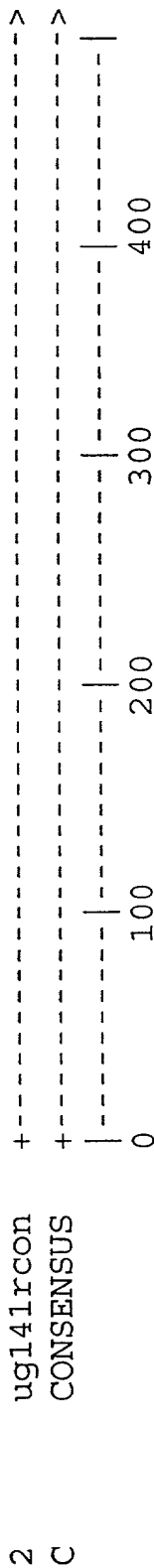
Contig: ug139



Contig: ug140



Contig: ug141rcon



Contig: ug142

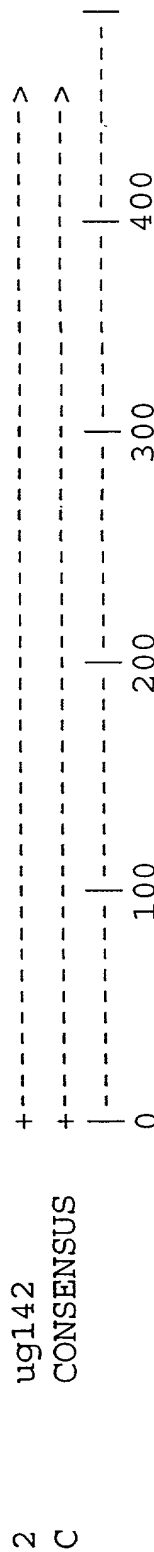
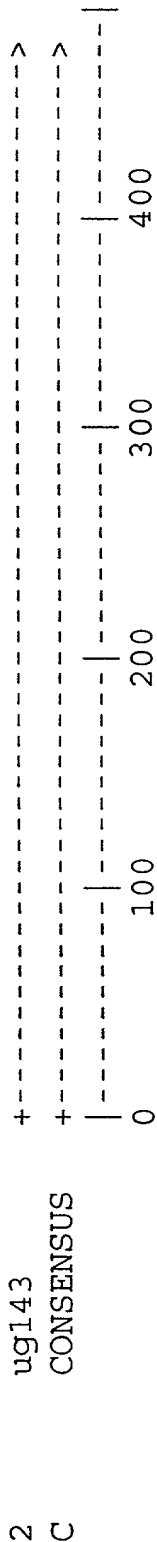


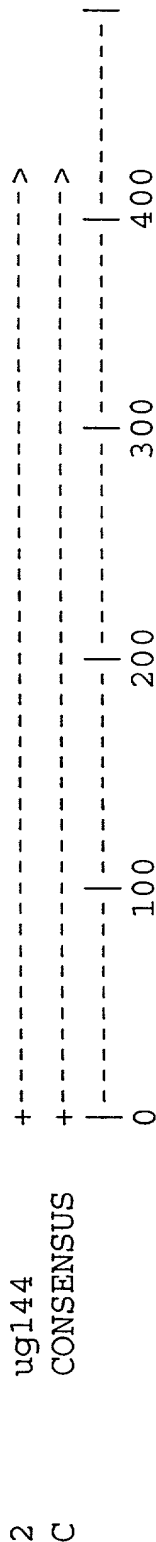
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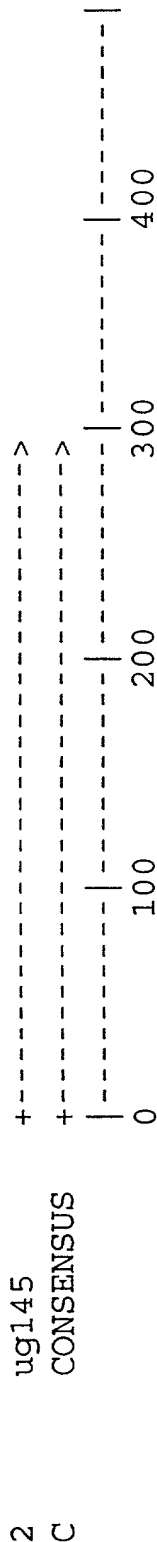
Contig: ug143



Contig: ug144



Contig: ug145



Contig: ug146

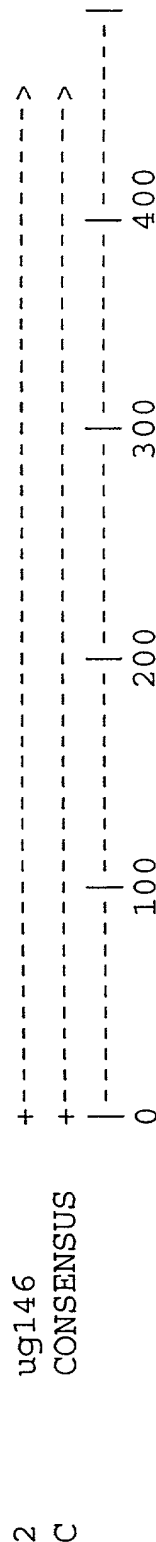
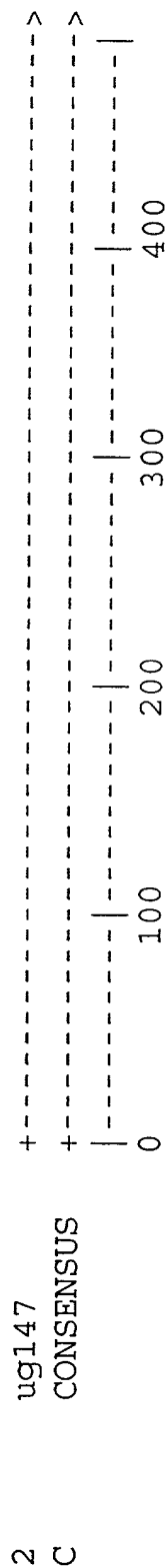


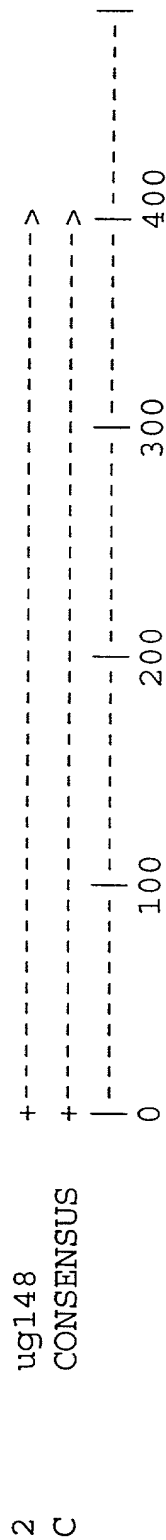
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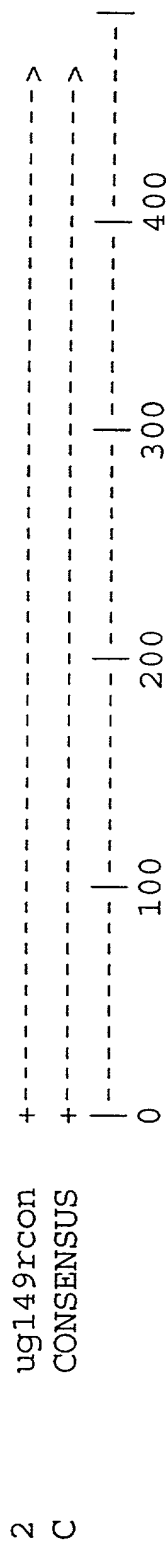
Contig: ug147



Contig: ug148



Contig: ug149rcon



Contig: ug150rcon

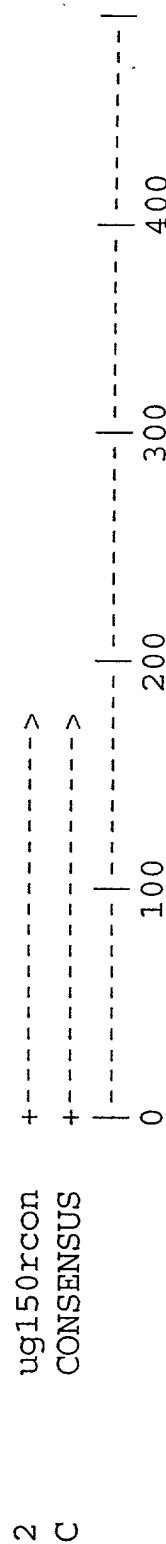


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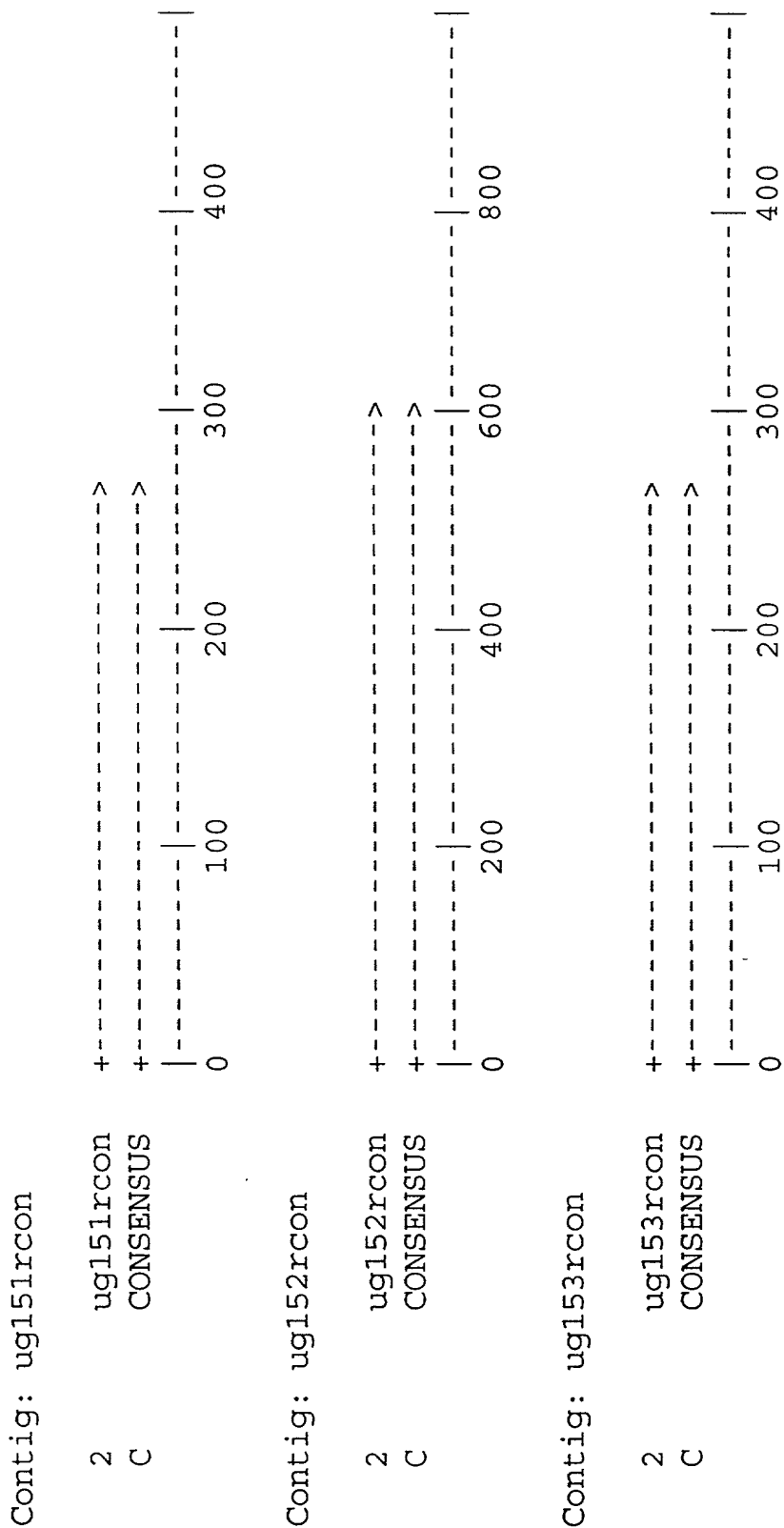


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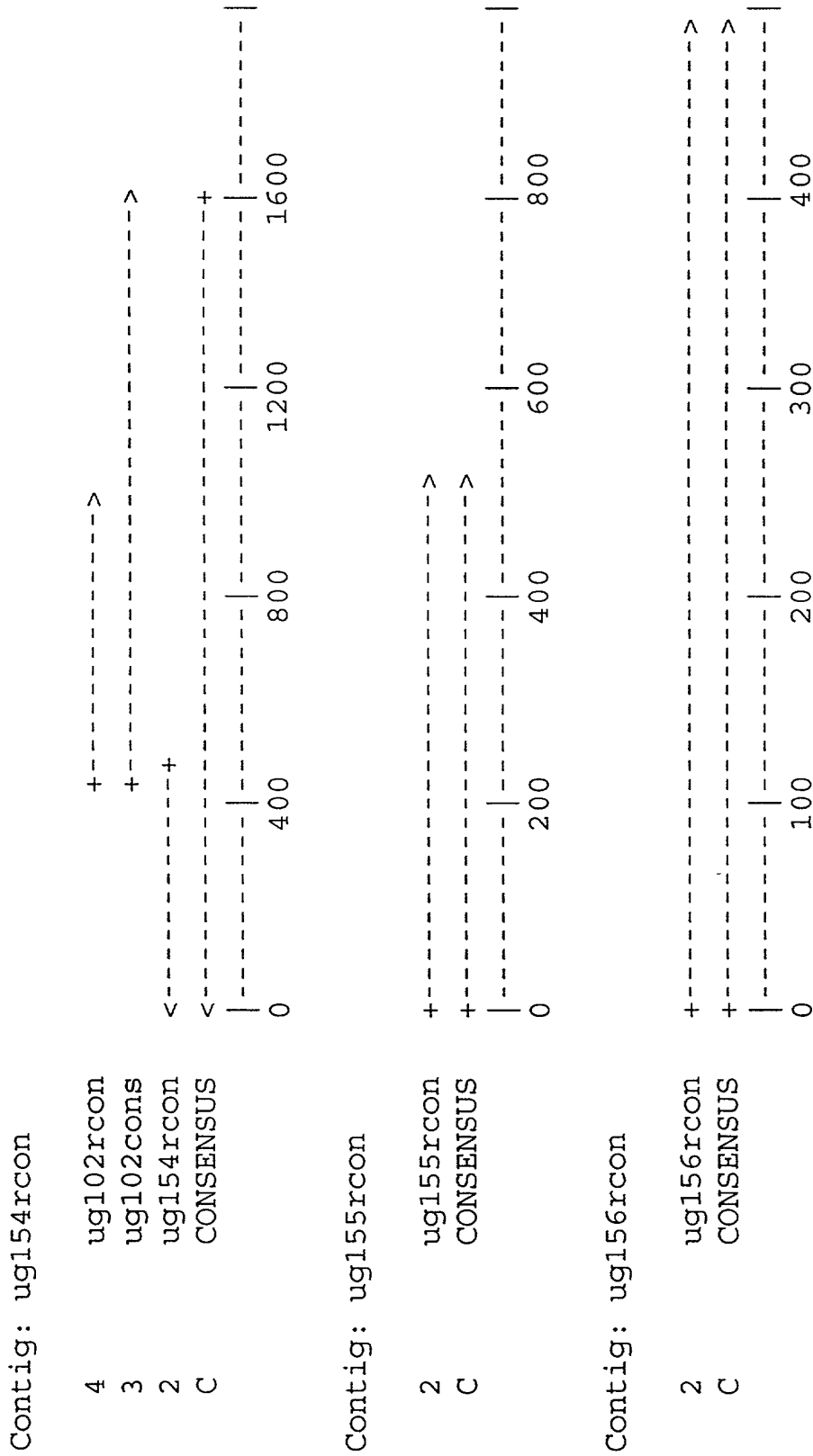
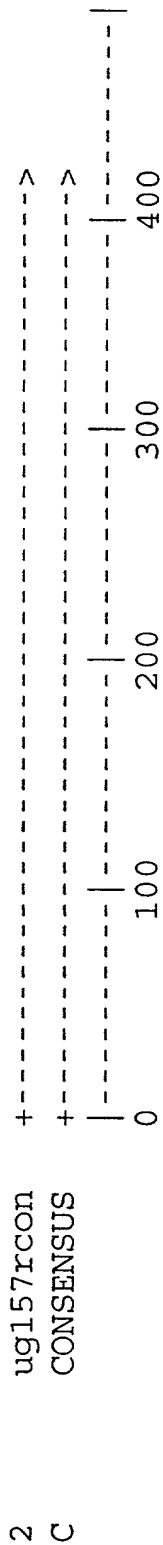


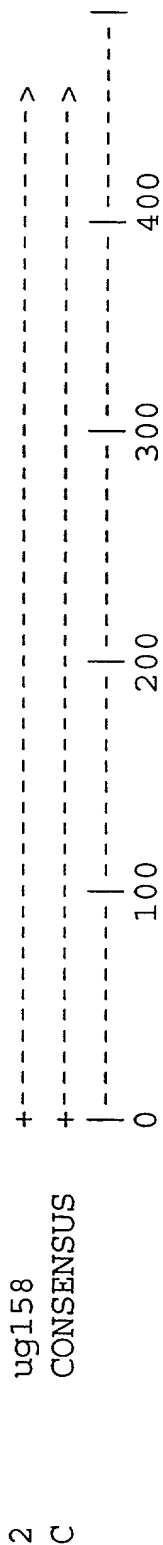
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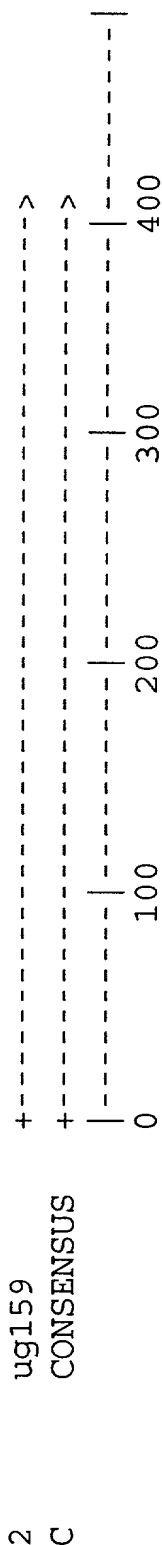
Contig: ug157rcon



Contig: ug158



Contig: ug159



Contig: ug160

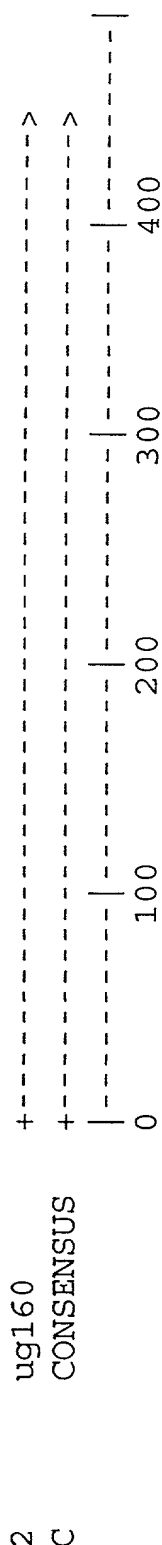
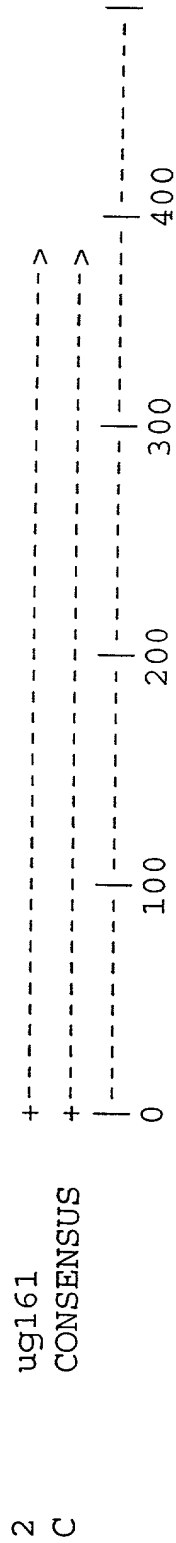


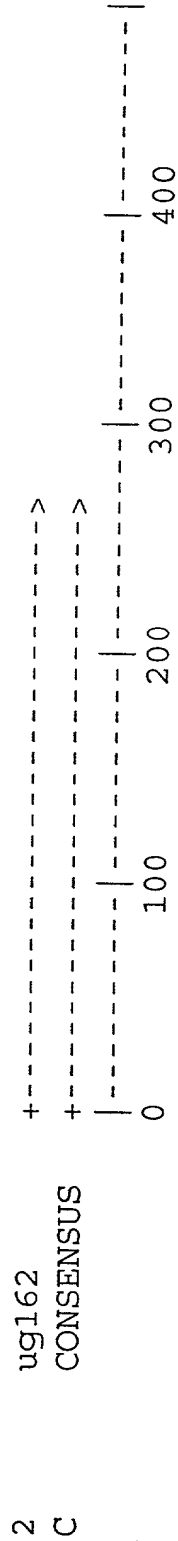
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Contig: ug161



Contig: ug162



Contig: ug163rcon

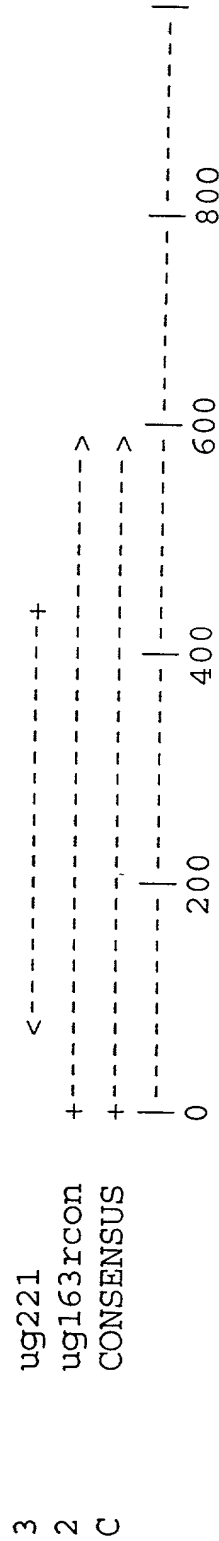
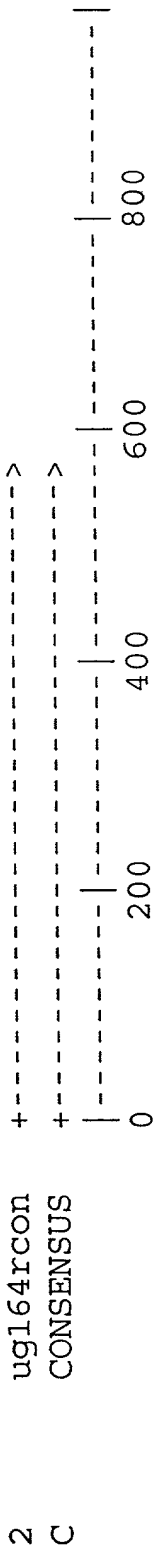


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Contig: ug164rcon



Contig: ug165rcon

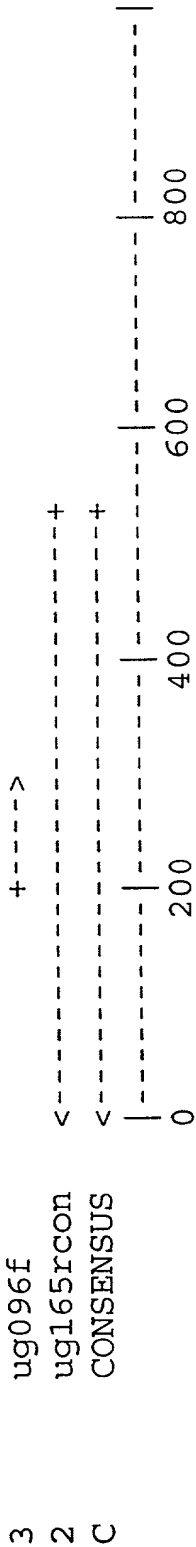


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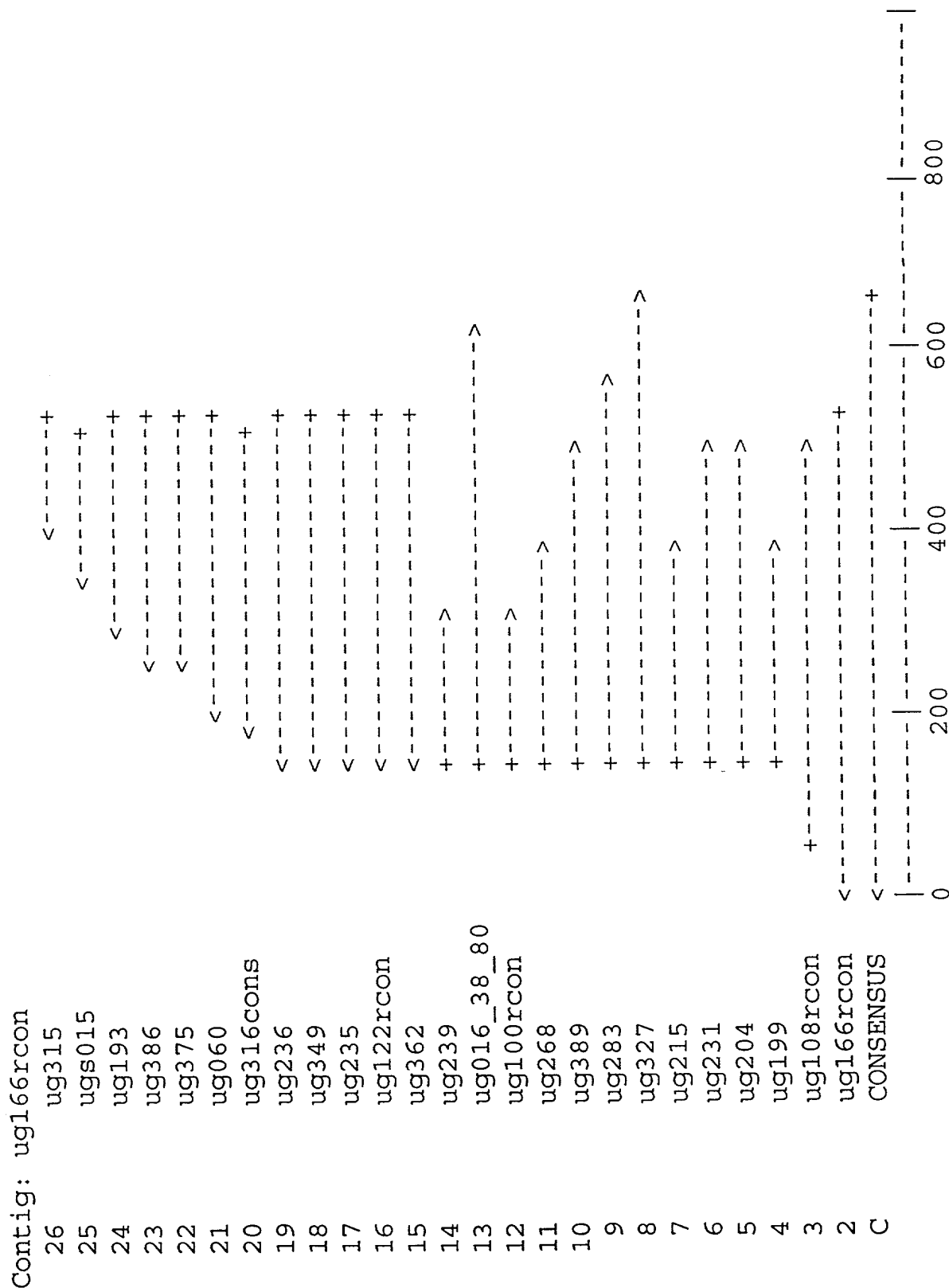
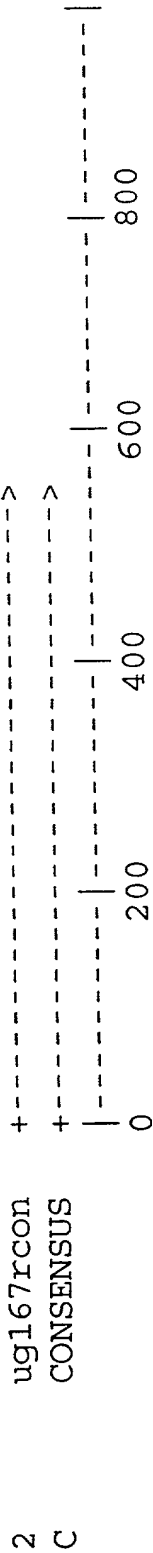


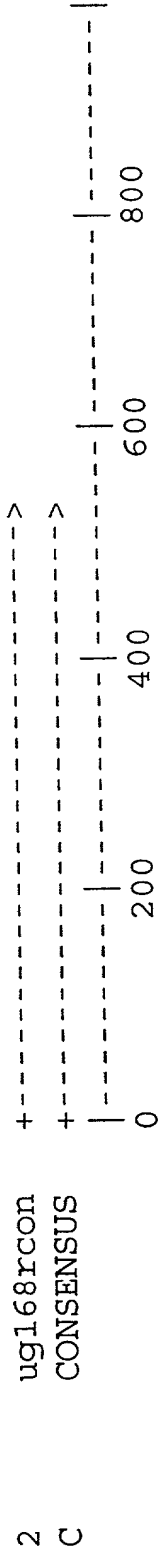
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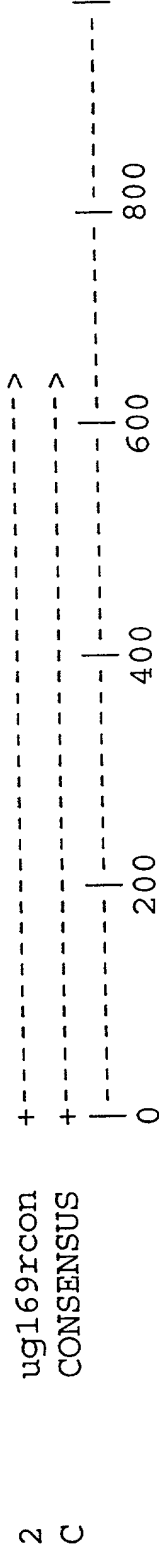
Contig: ug167rcon



Contig: ug168rcon



Contig: ug169rcon



Contig: ug170rcon

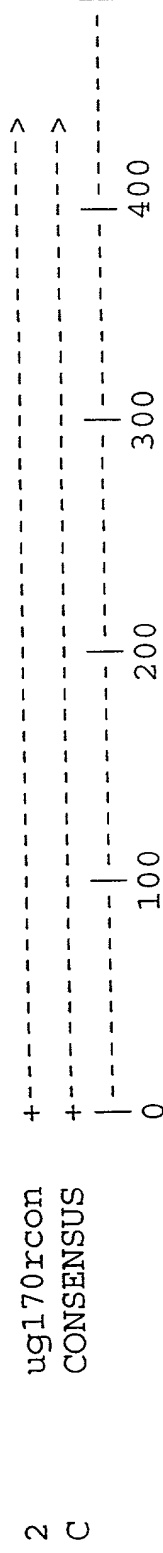
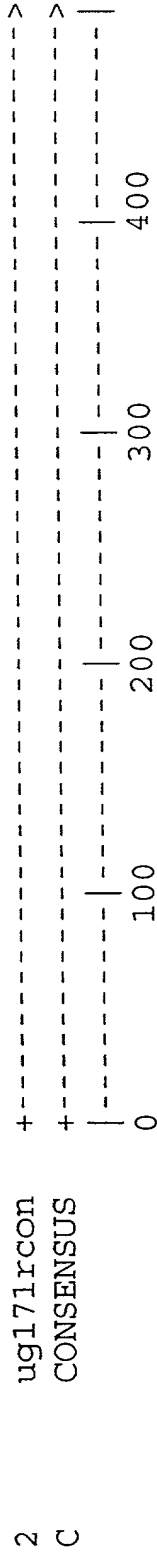


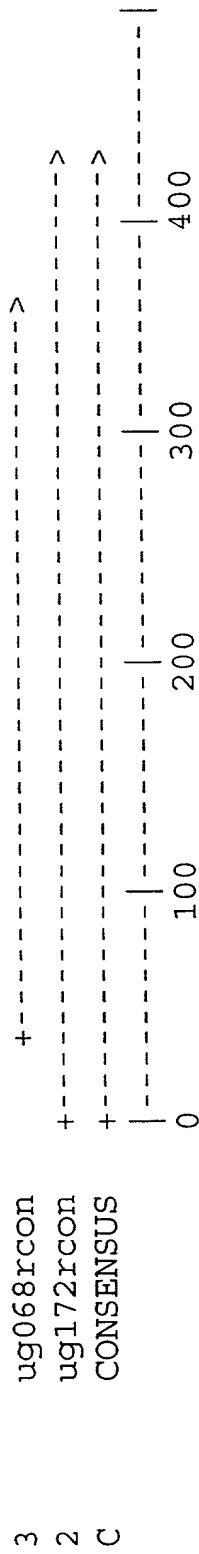
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Contig: ug171rcon



Contig: ug172rcon



Contig: ug173rcon

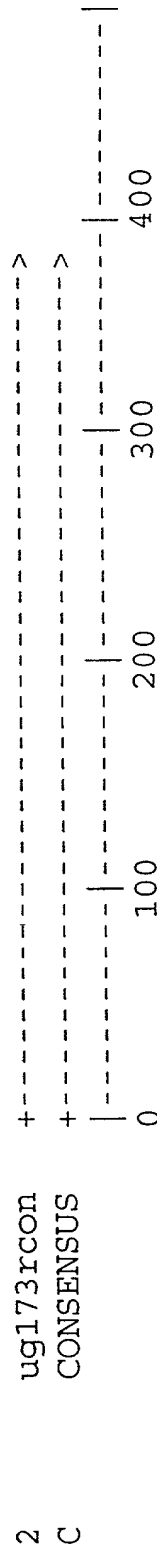
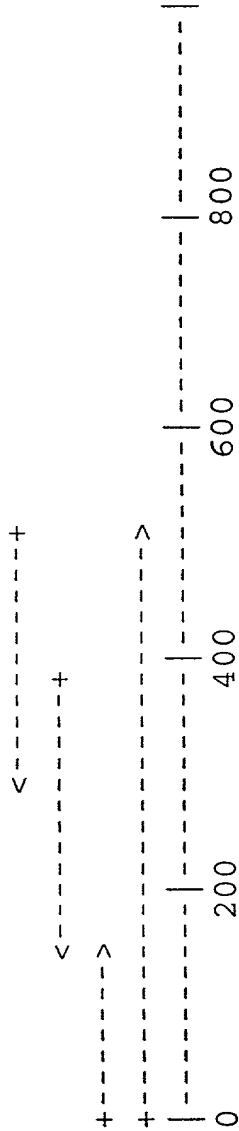


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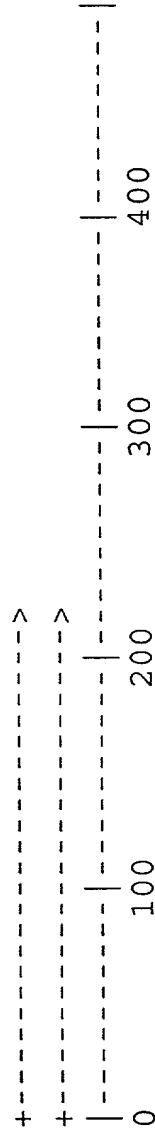
Contig: ug174rcon

4 ug181rcon
 3 ug205
 2 ug174rcon
 C CONSENSUS



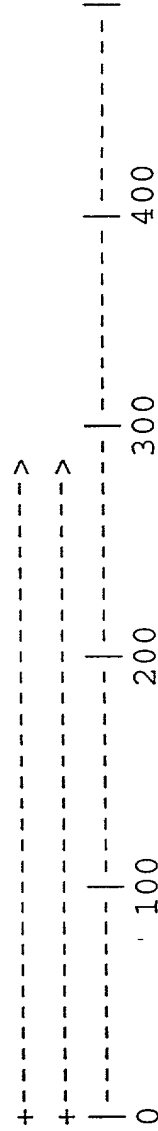
Contig: ug175rcon

2 ug175rcon
 C CONSENSUS



Contig: ug176rcon

2 ug176rcon
 C CONSENSUS



Contig: ug177rcon

2 ug177rcon
 C CONSENSUS

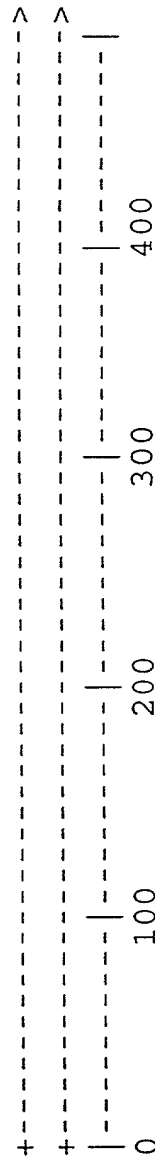
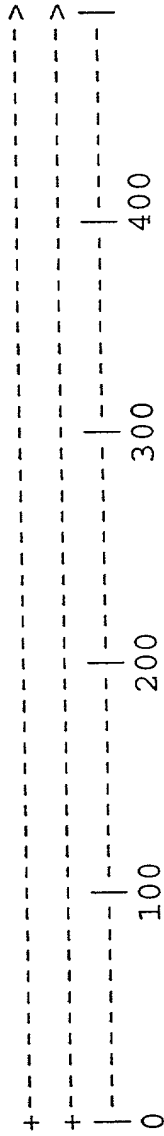


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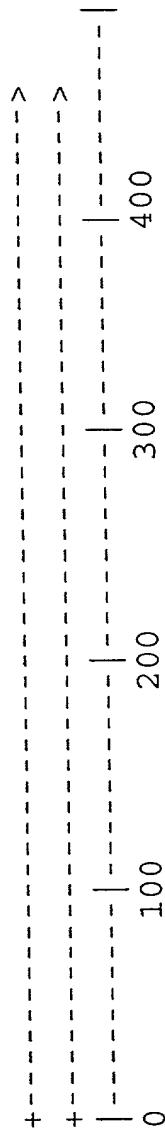
Contig: ug178rcon

2 ug178rcon
C CONSENSUS



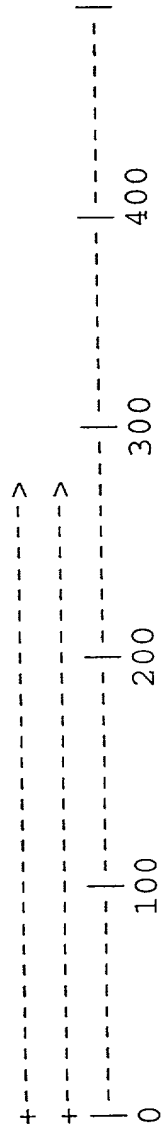
Contig: ug179rcon

2 ug179rcon
C CONSENSUS



Contig: ug182

2 ug182
C CONSENSUS



Contig: ug183rcon

2 ug183rcon
C CONSENSUS

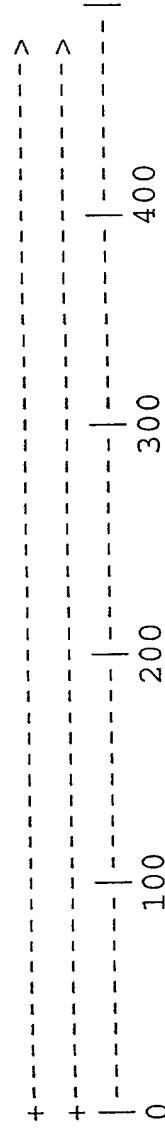
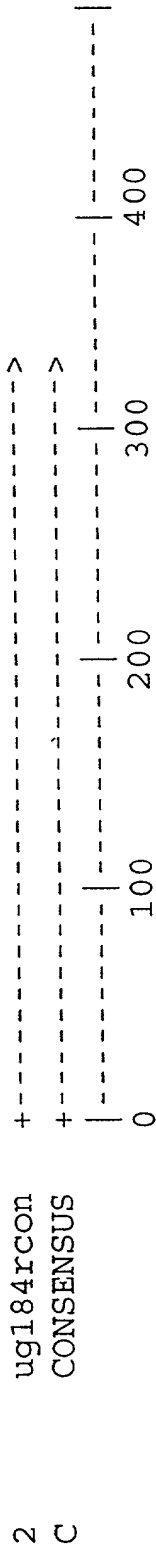


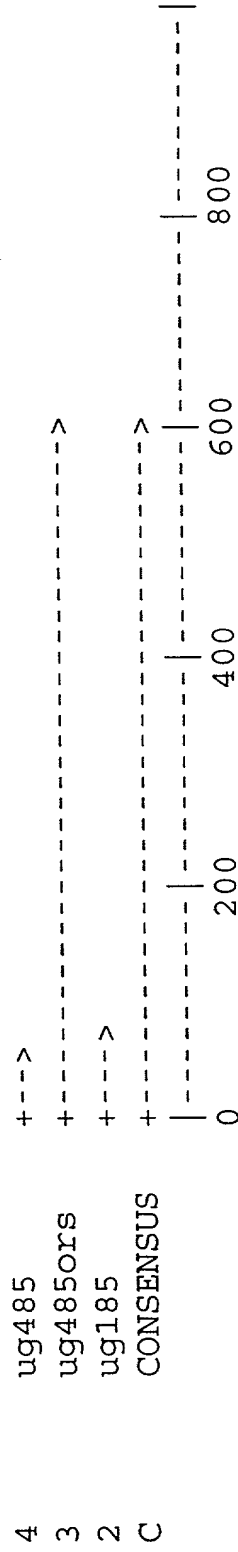
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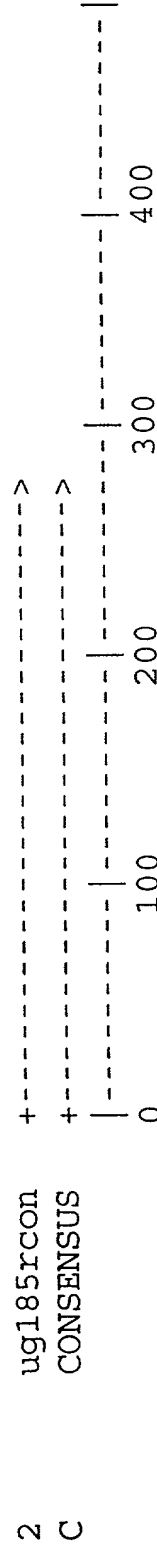
Contig: ug184rcon



Contig: ug185



Contig: ug185rcon



Contig: ug186rcon

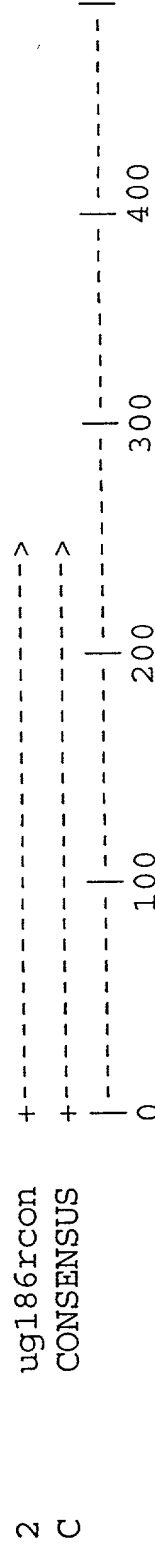
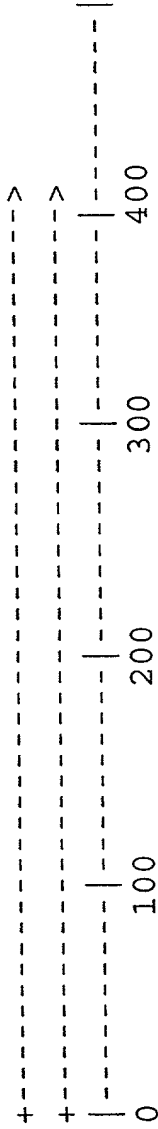


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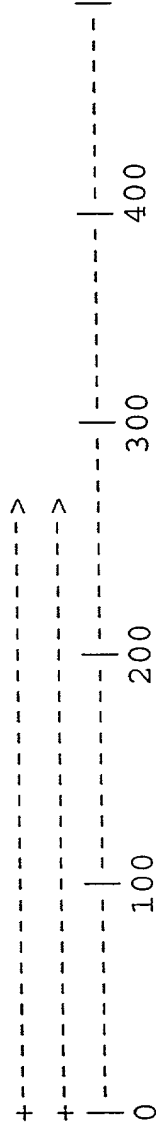
Contig: ug188rcon

2 ug188rcon
C CONSENSUS



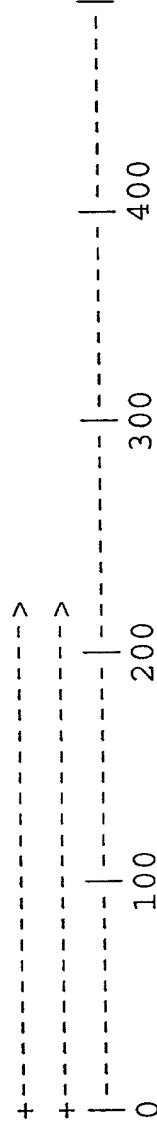
Contig: ug189rcon

2 ug189rcon
C CONSENSUS



Contig: ug190rcon

2 ug190rcon
C CONSENSUS



Contig: ug191rcon

2 ug191rcon
C CONSENSUS

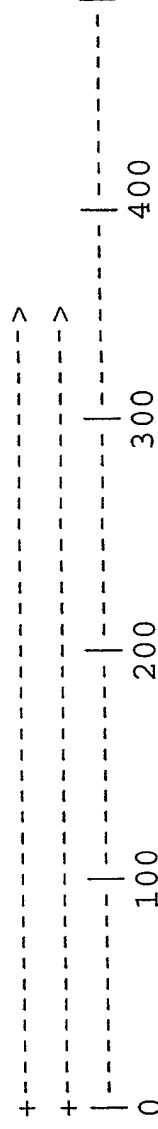
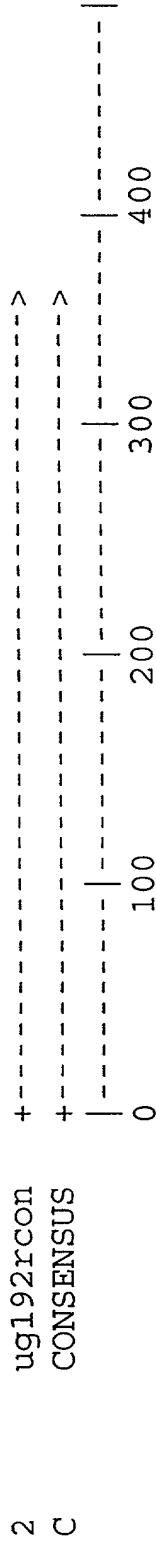


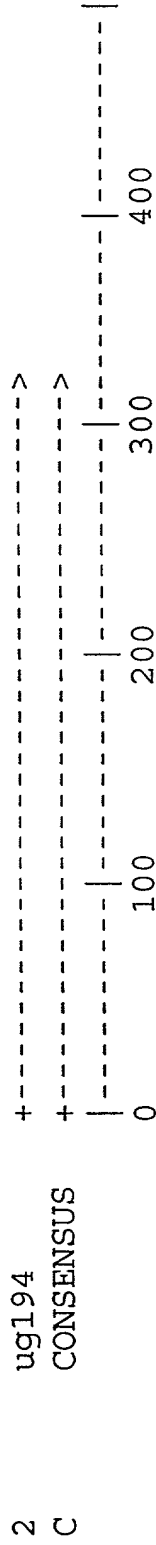
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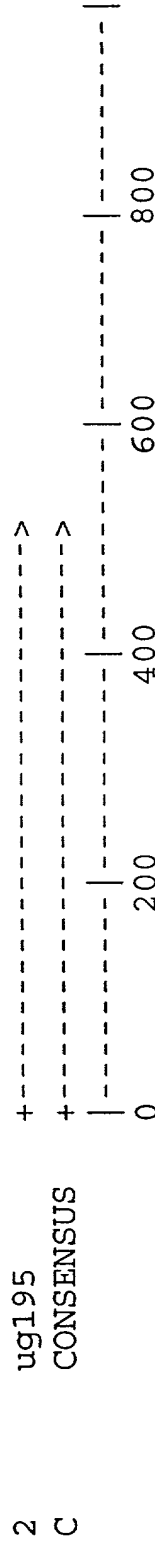
Contig: ug192rcon



Contig: ug194



Contig: ug195



Contig: ug197

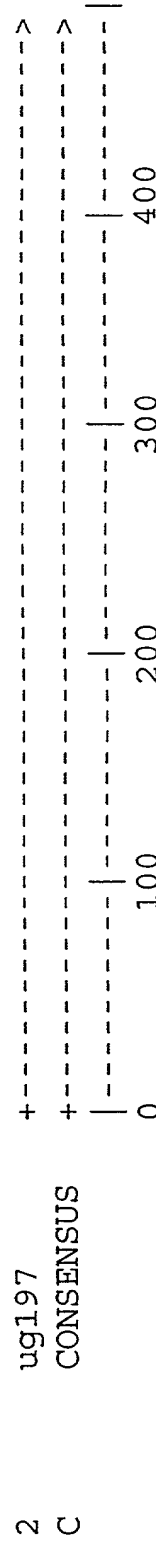
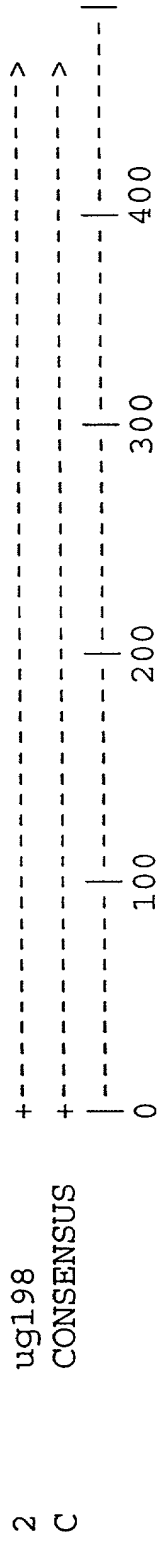


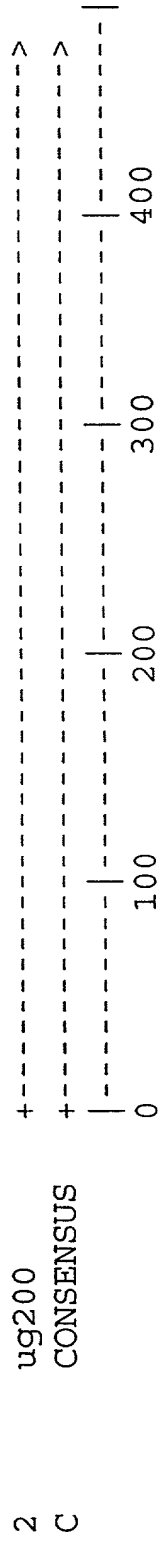
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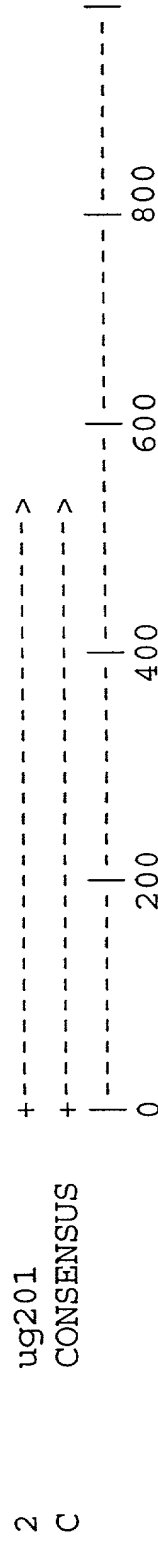
Contig: ug198



Contig: ug200



Contig: ug201



Contig: ug202

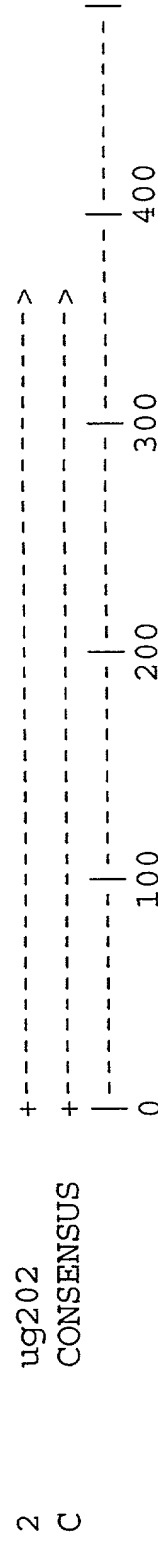
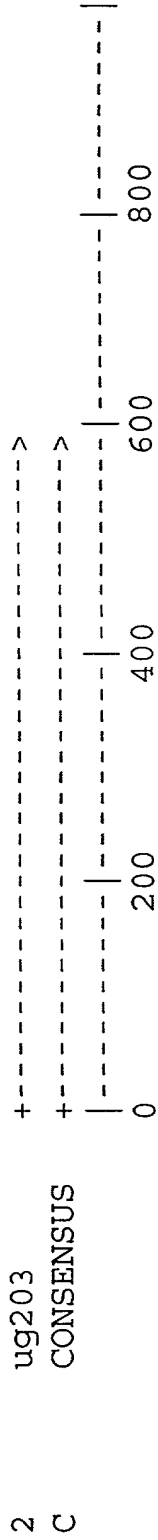


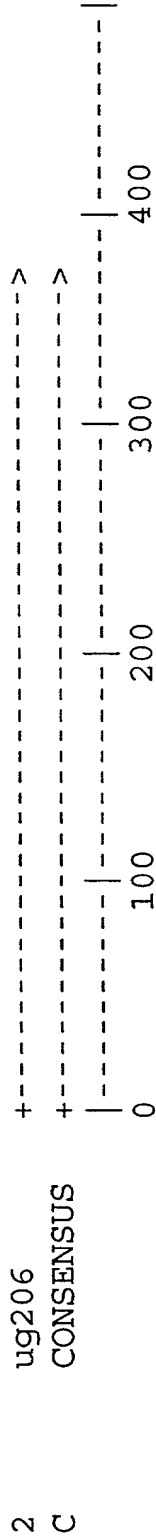
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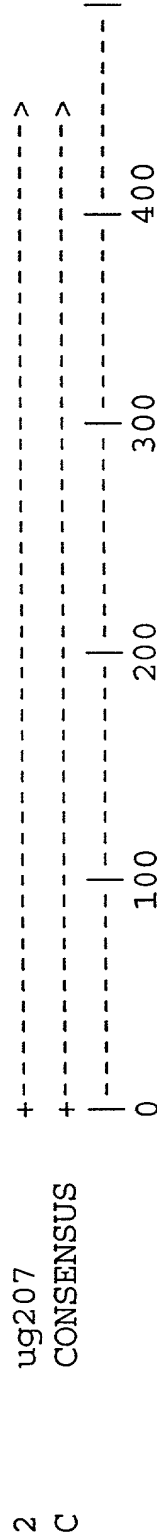
Contig: ug203



Contig: ug206



Contig: ug207



Contig: ug209

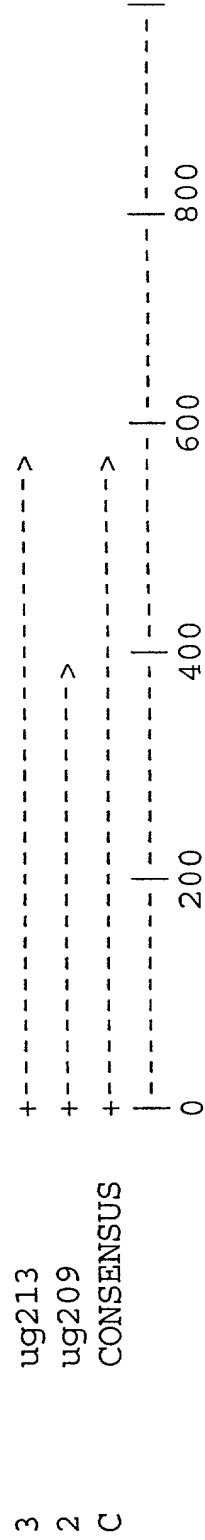
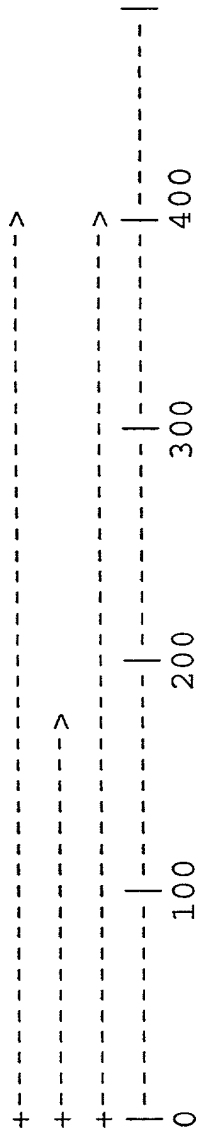


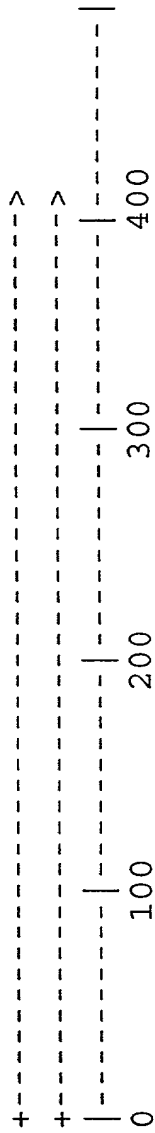
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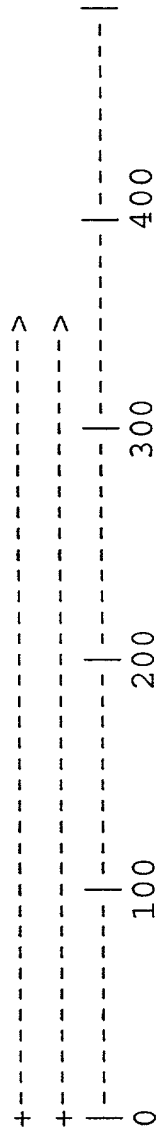
Contig: ug210



Contig: ug211



Contig: ug212



Contig: ug214

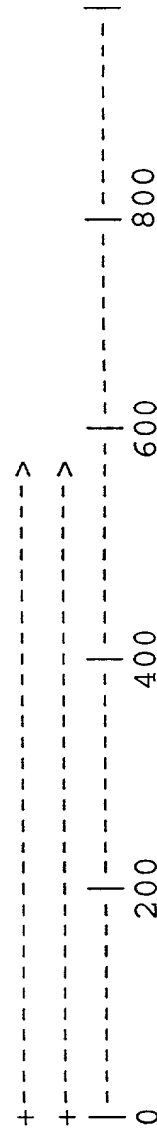
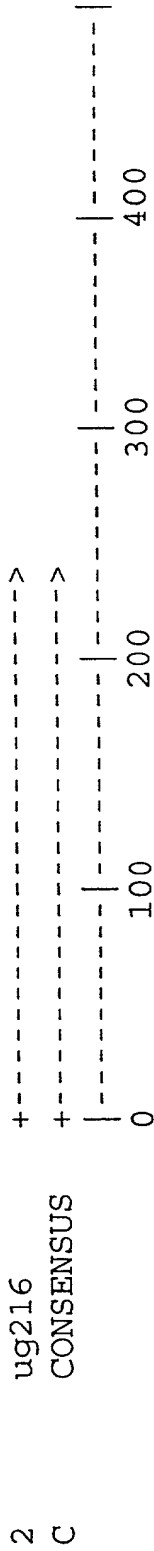


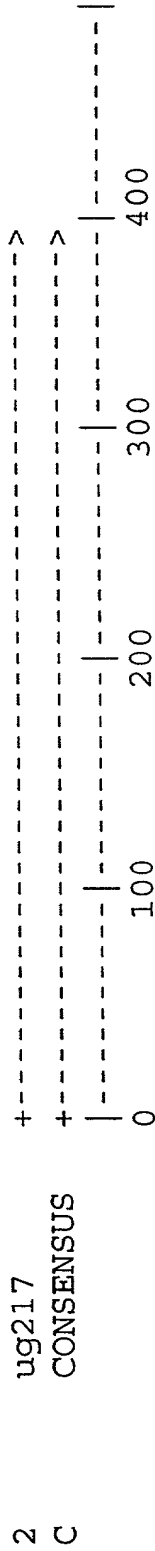
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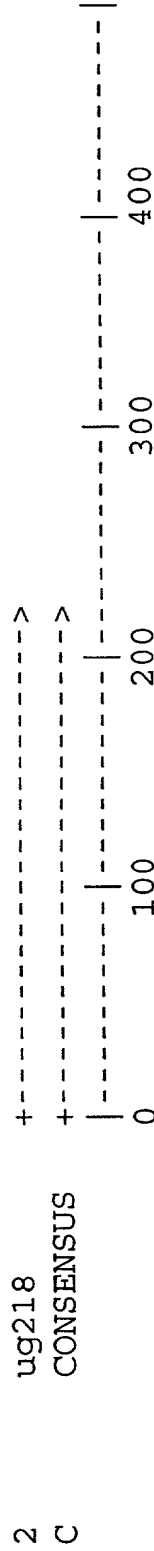
Contig: ug216



Contig: ug217



Contig: ug218



Contig: ug219

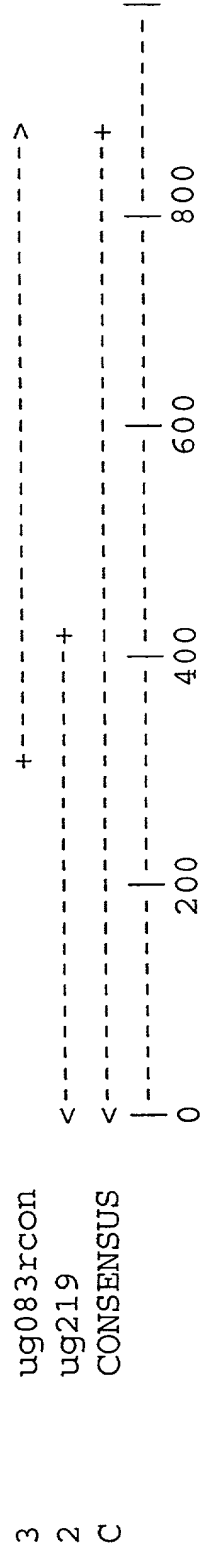
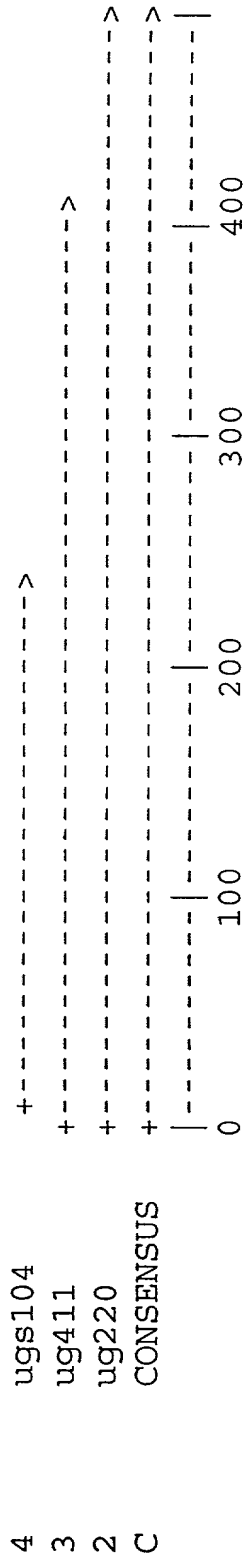


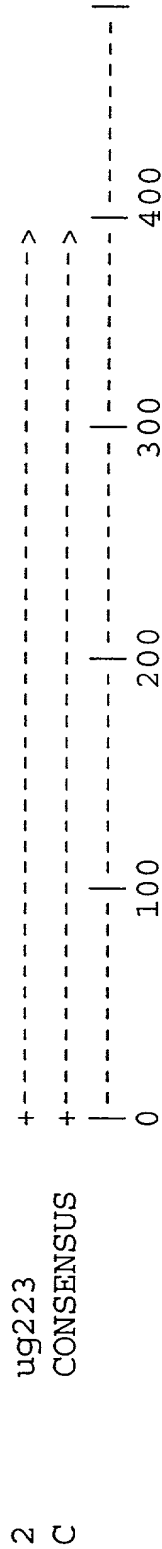
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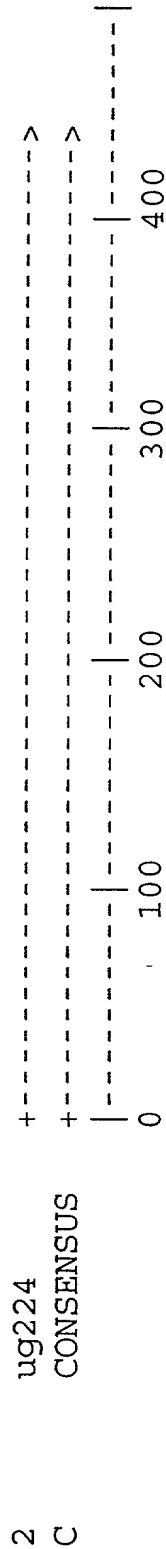
Contig: ug220



Contig: ug223



Contig: ug224



Contig: ug225

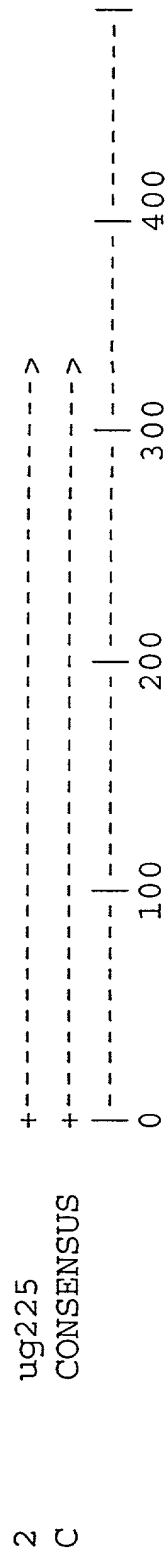
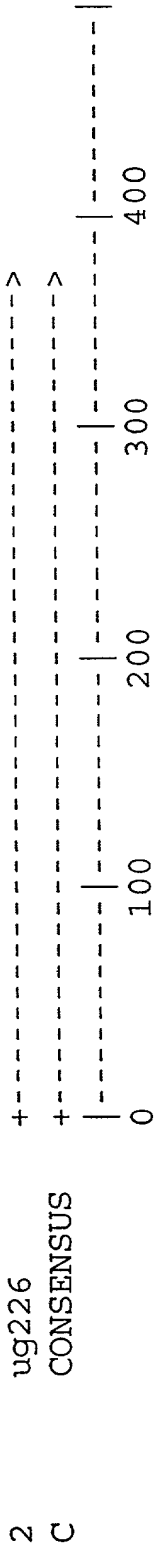


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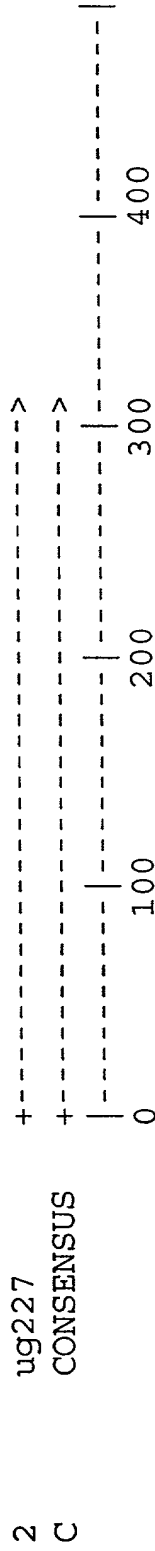
U.S. PATENT APPLICATION NO. 09/933,797
FILED: August 21, 2001
PENNIE & EDMONDS LLP (Atty. Dkt. # 9901-012-999)
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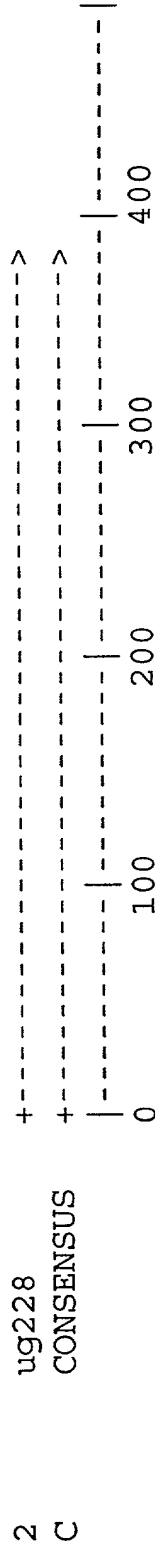
Contig: ug226



Contig: ug227



Contig: ug228



Contig: ug229

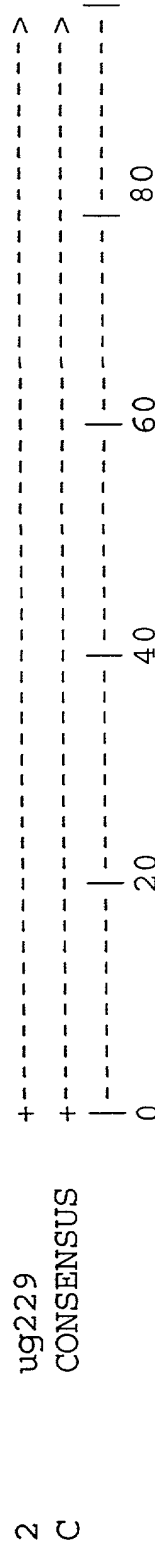
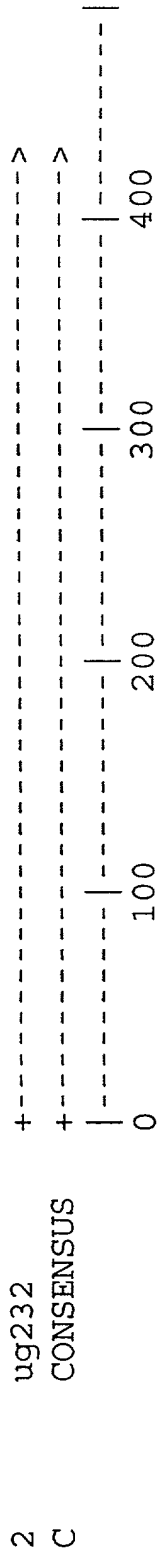


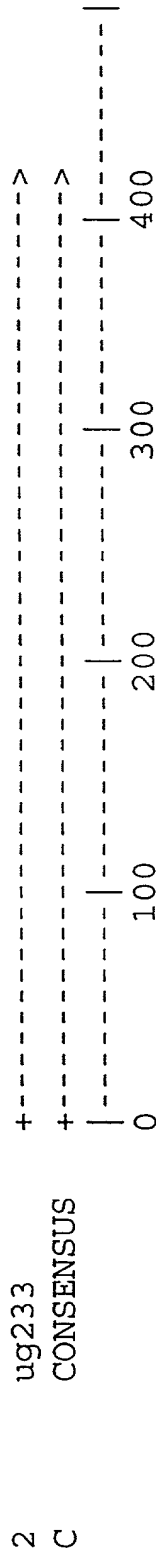
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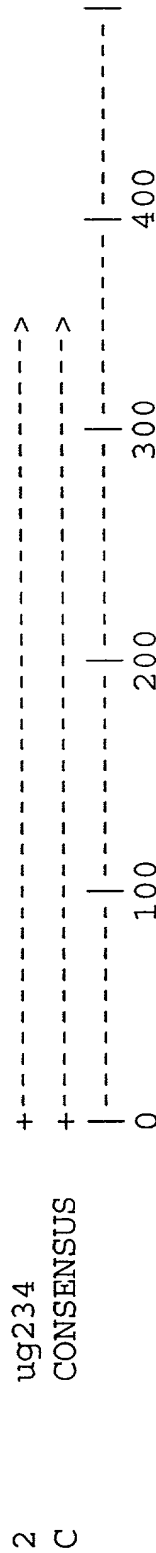
Contig: ug232



Contig: ug233



Contig: ug234



Contig: ug237

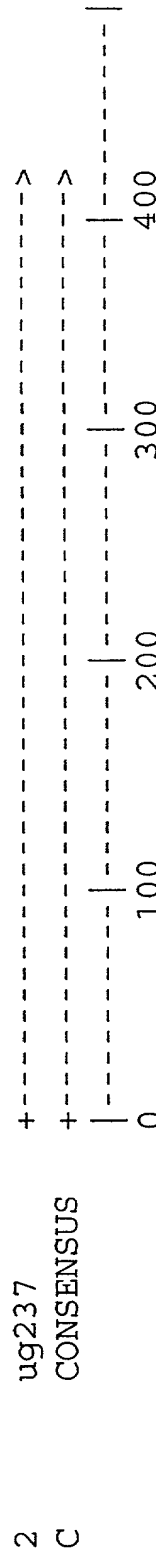
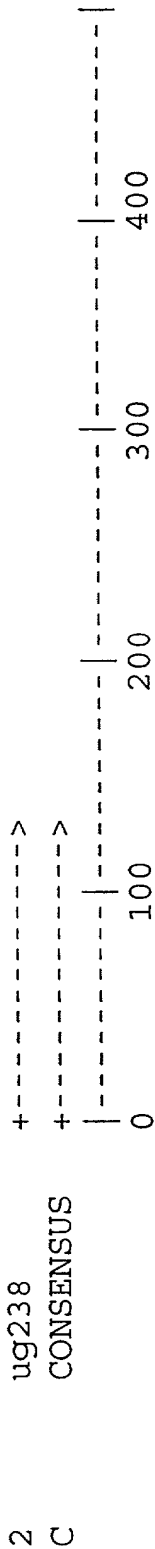


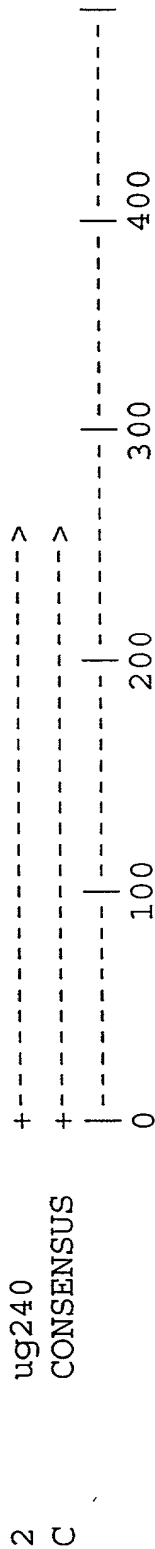
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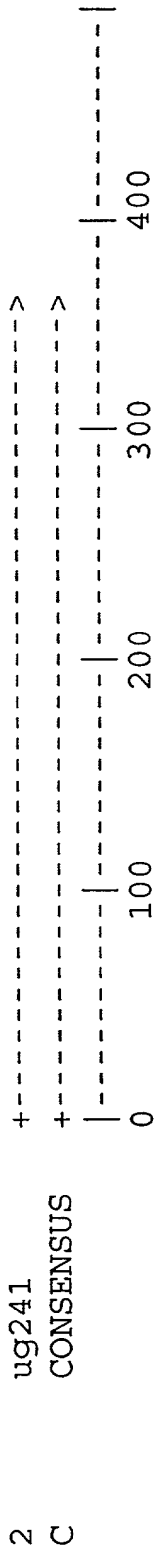
Contig: ug238



Contig: ug240



Contig: ug241



Contig: ug242

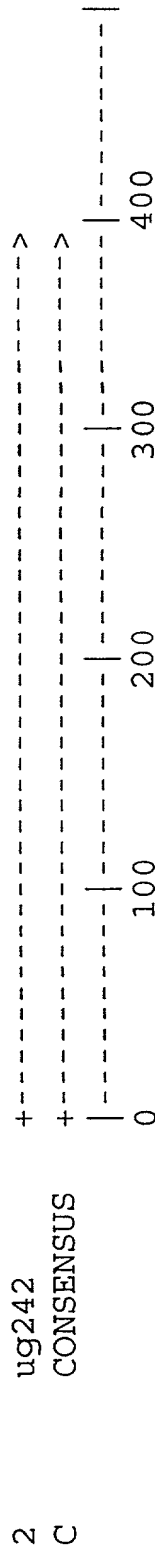
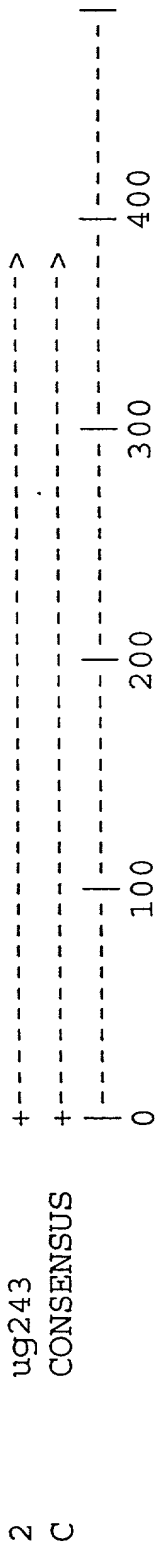


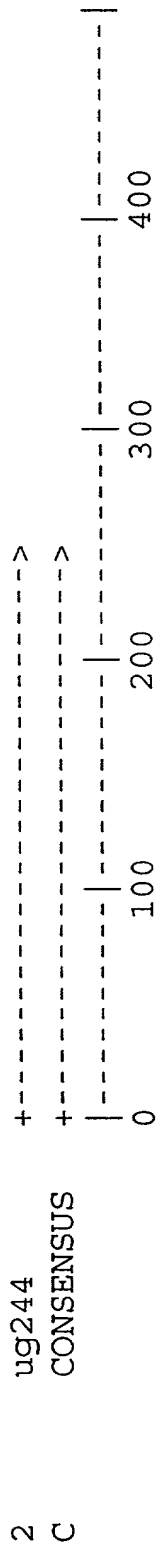
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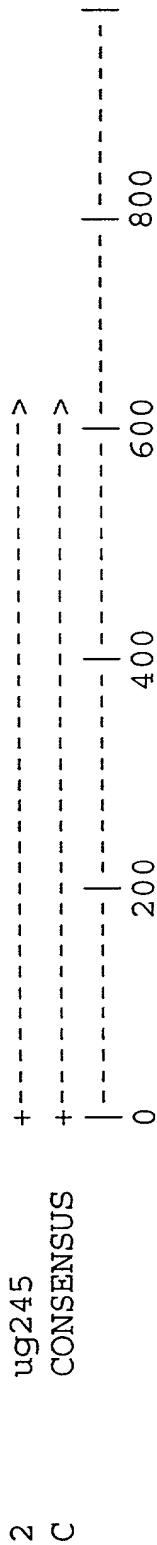
Contig: ug243



Contig: ug244



Contig: ug245



Contig: ug246

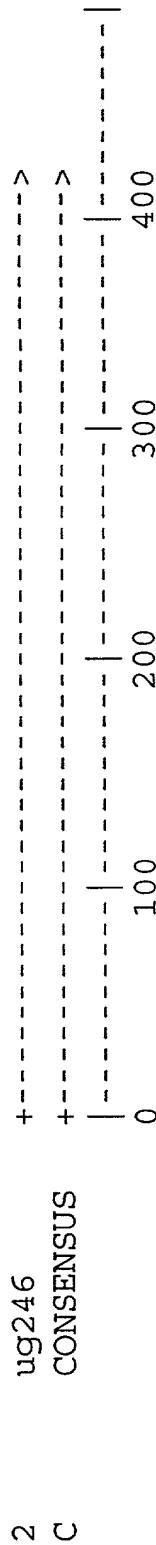
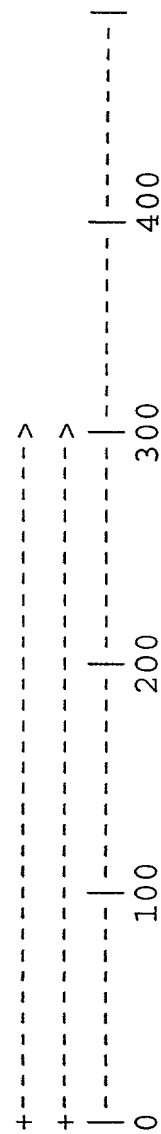


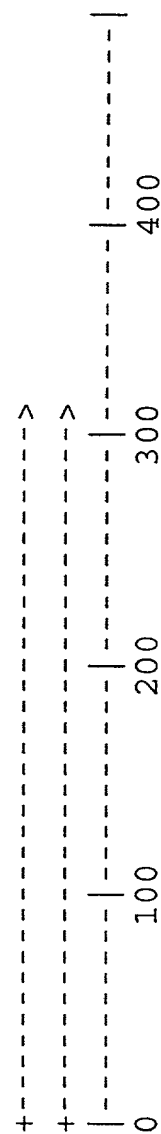
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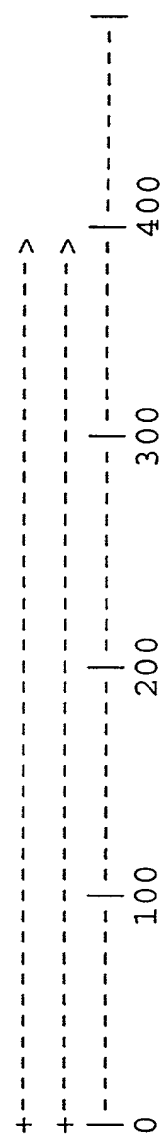
Contig: ug247



Contig: ug248



Contig: ug249



Contig: ug250

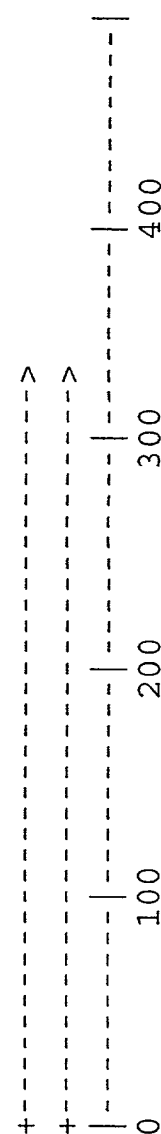
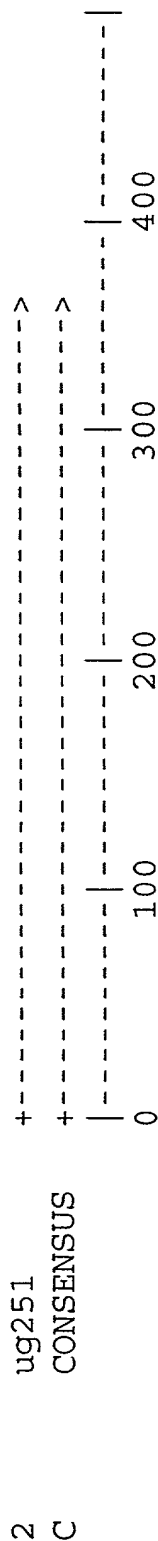


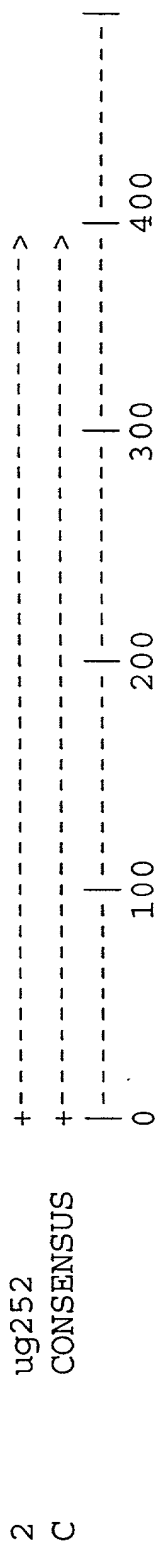
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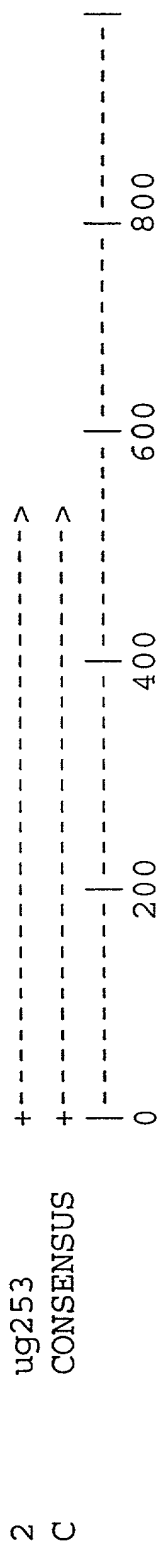
Contig: ug251



Contig: ug252



Contig: ug253



Contig: ug254

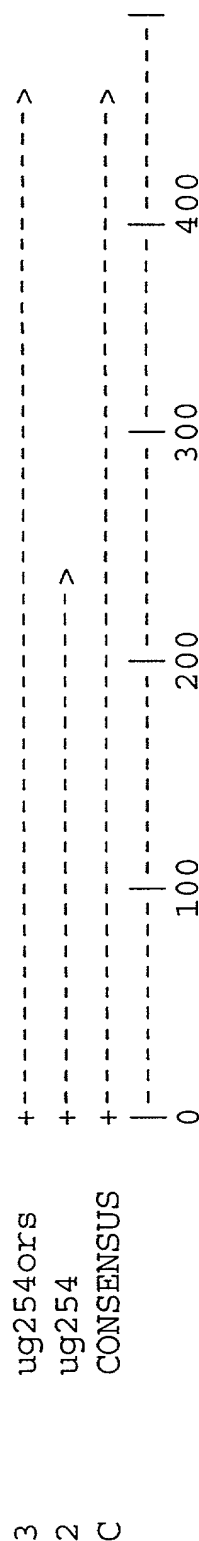
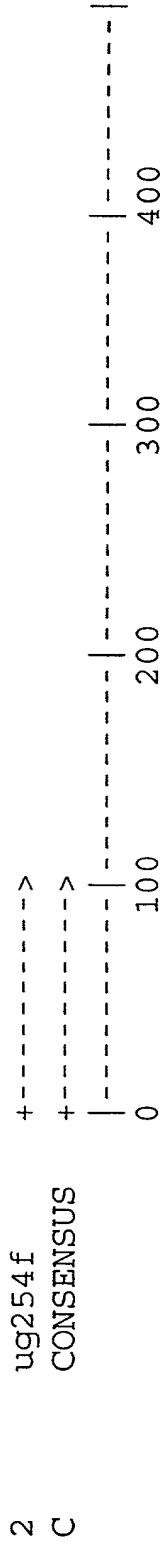


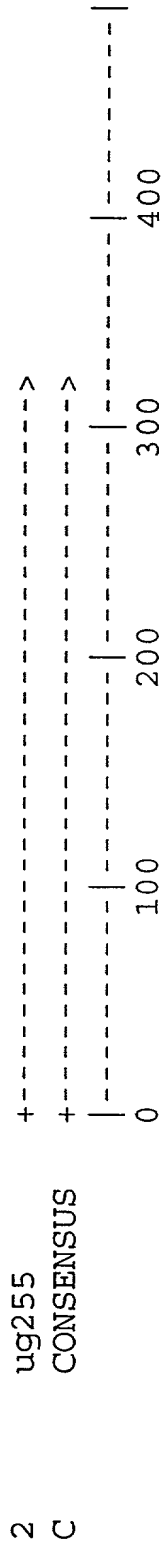
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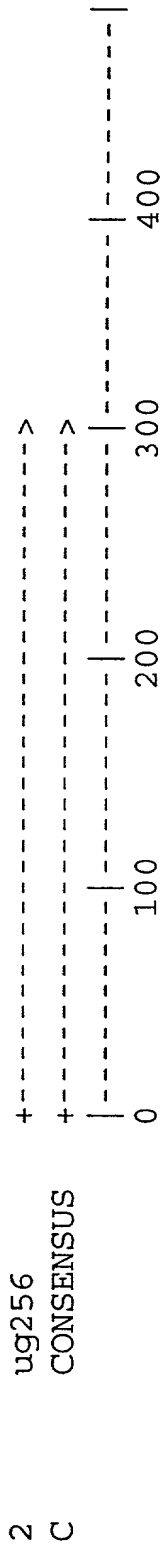
Contig: ug254f



Contig: ug255



Contig: ug256



Contig: ug257

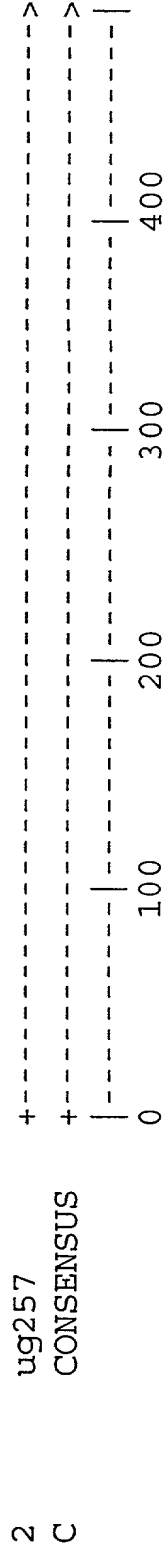
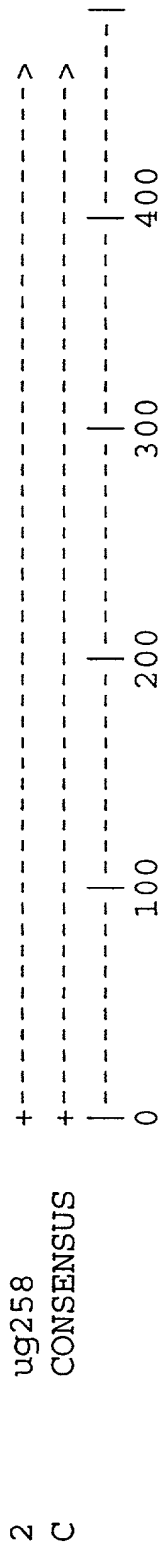


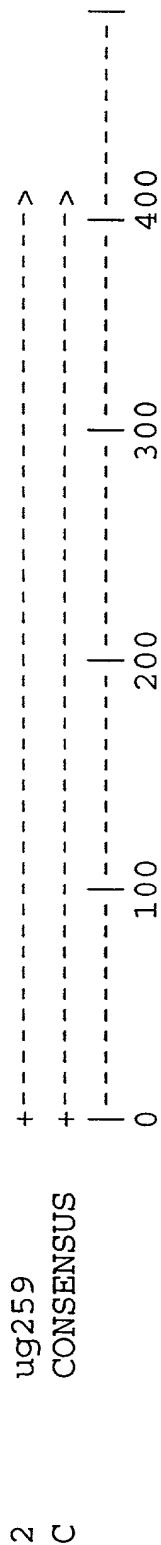
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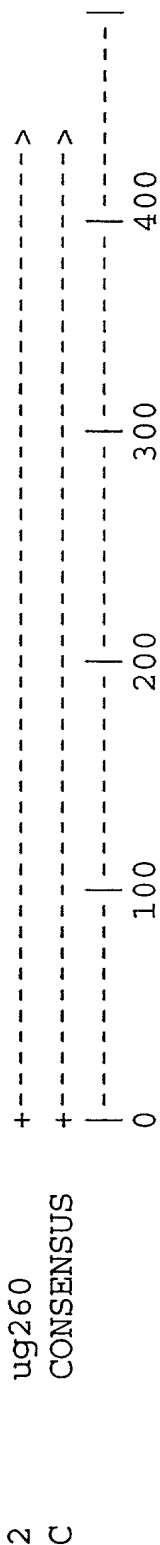
Contig: ug258



Contig: ug259



Contig: ug260



Contig: ug261

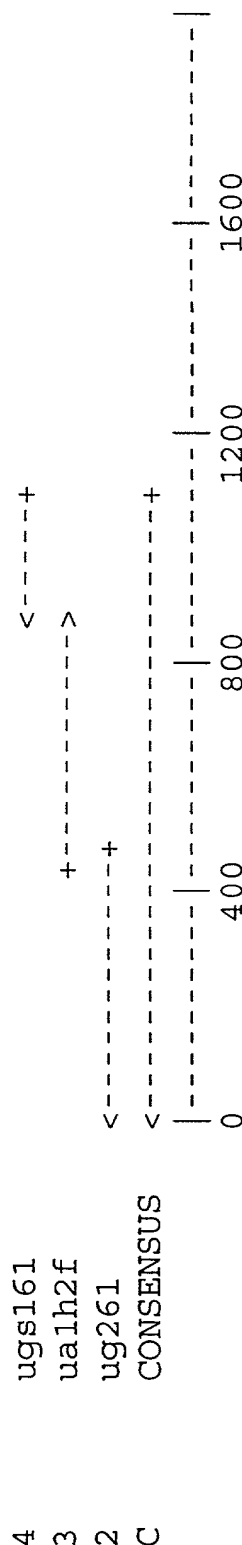
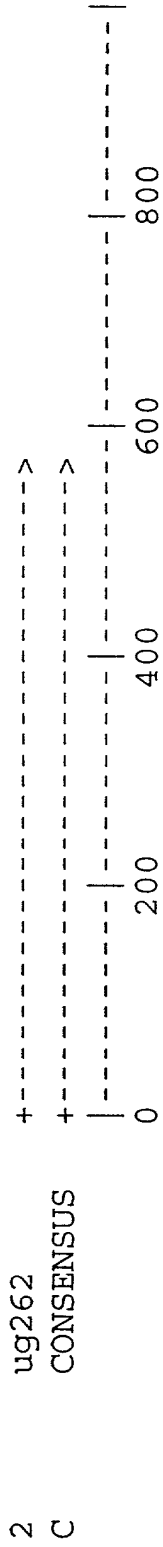


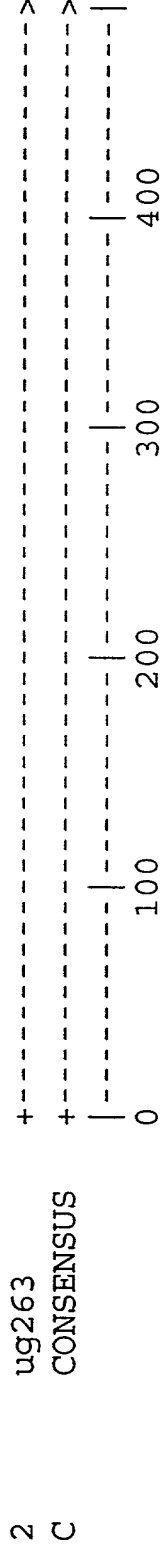
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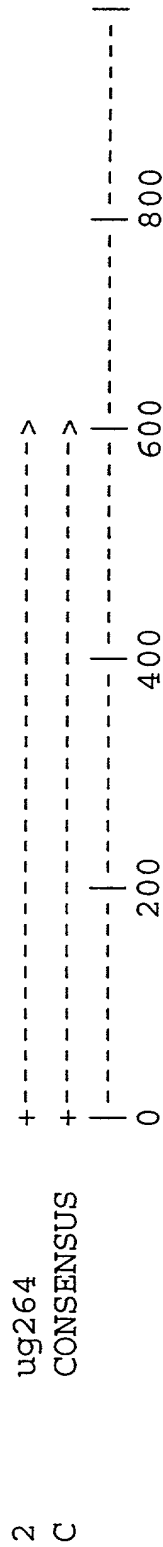
Contig: ug262



Contig: ug263



Contig: ug264



Contig: ug265

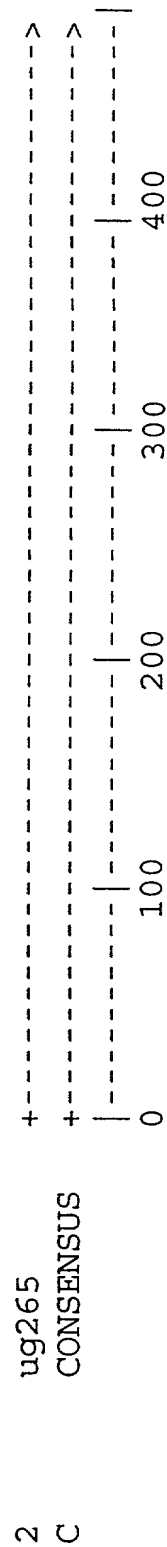
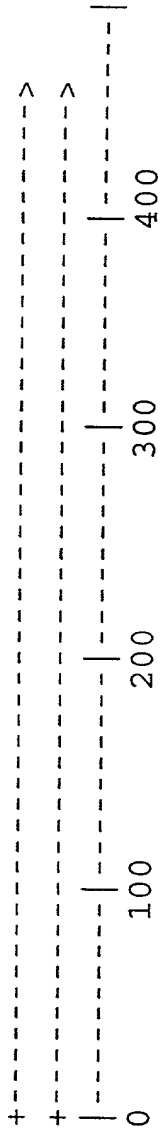


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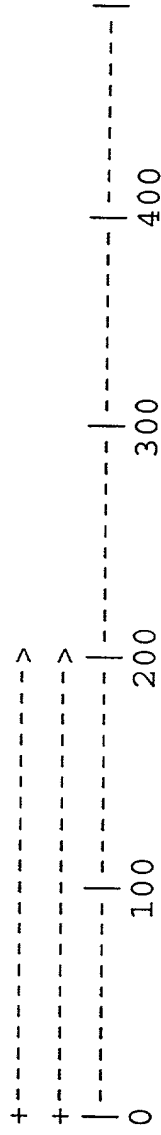
Contig: ug266

2 ug266
C CONSENSUS



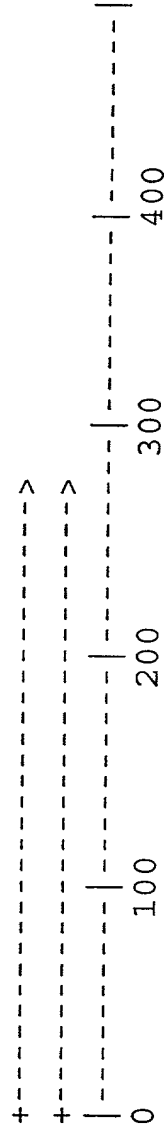
Contig: ug267

2 ug267
C CONSENSUS



Contig: ug269

2 ug269
C CONSENSUS



Contig: ug270

2 ug270
C CONSENSUS

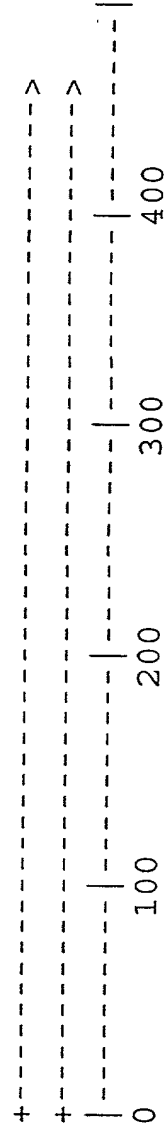
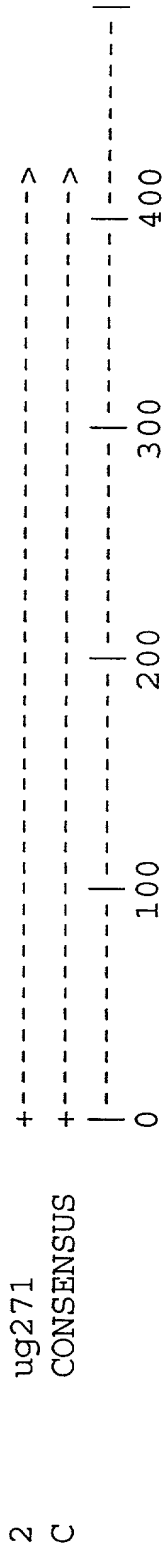


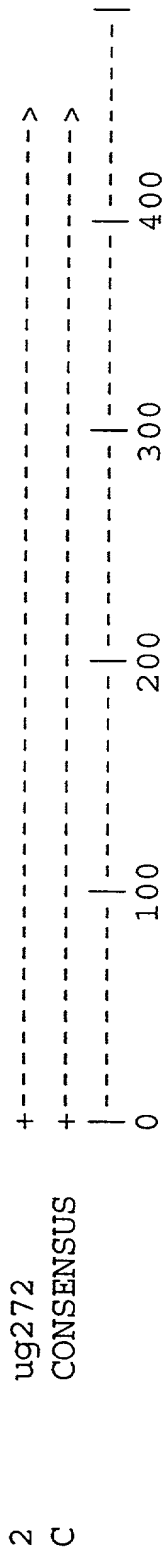
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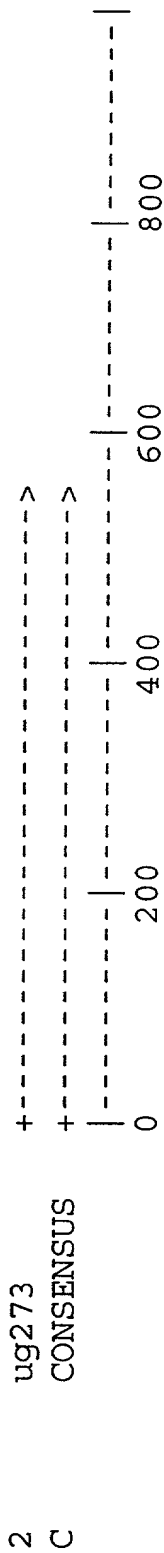
Contig: ug271



Contig: ug272



Contig: ug273



Contig: ug274

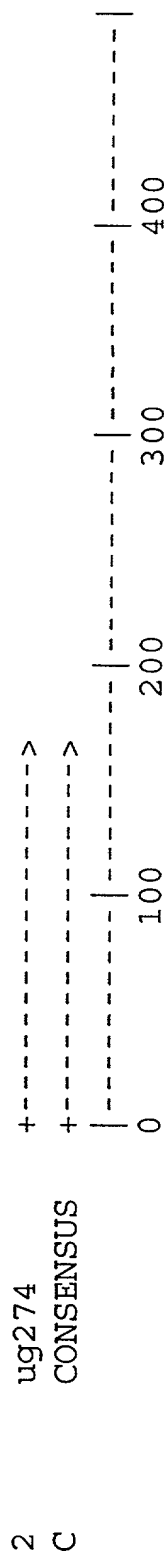


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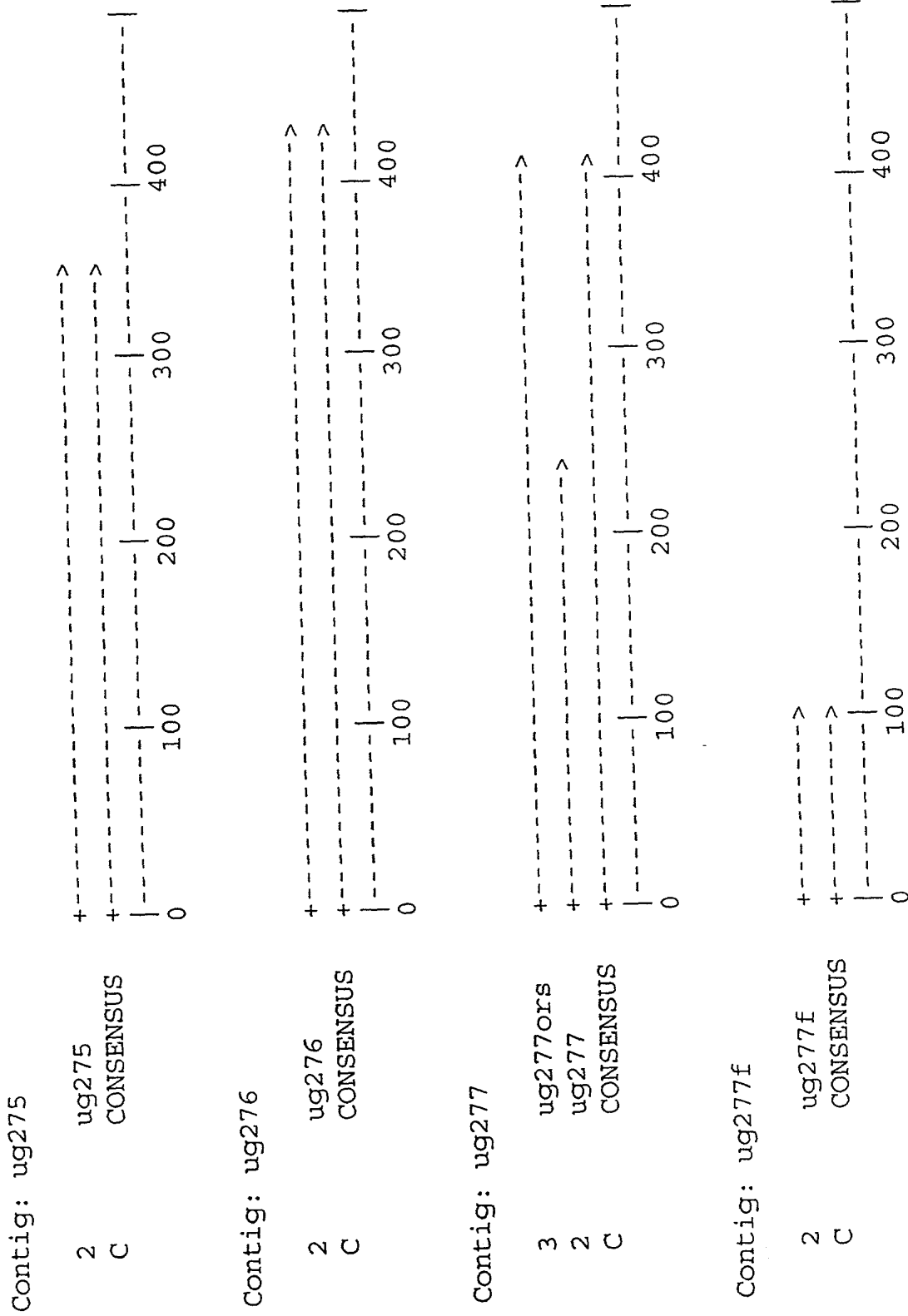
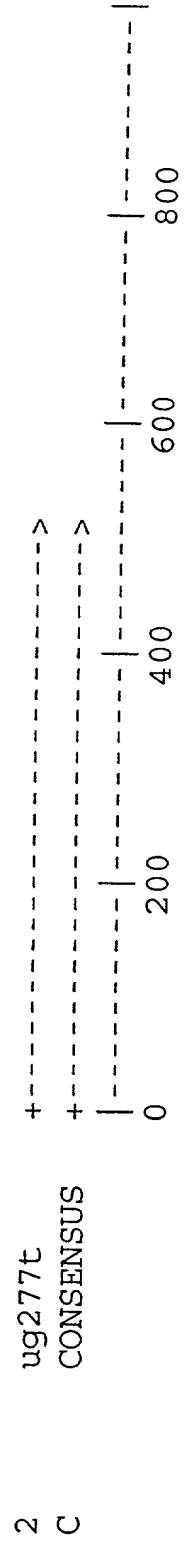


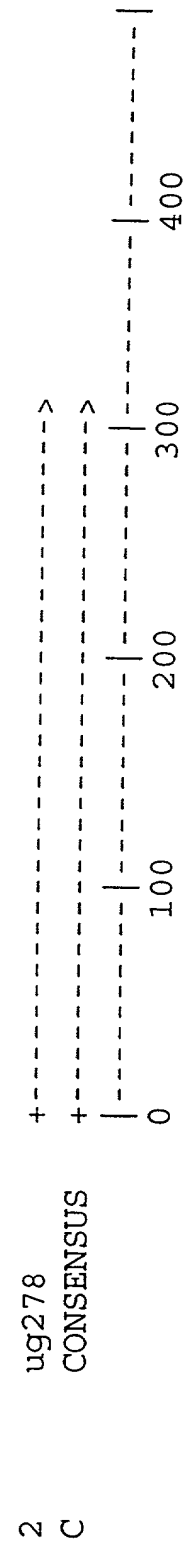
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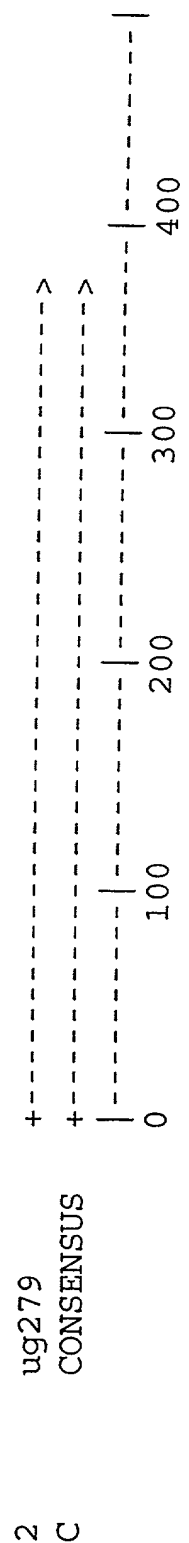
Contig: ug277t



Contig: ug278



Contig: ug279



Contig: ug280

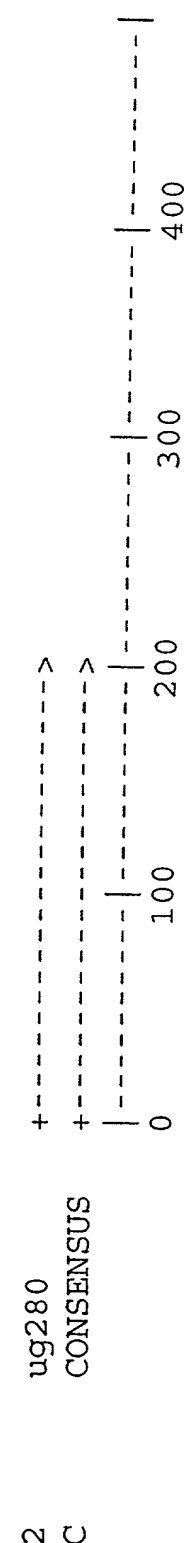
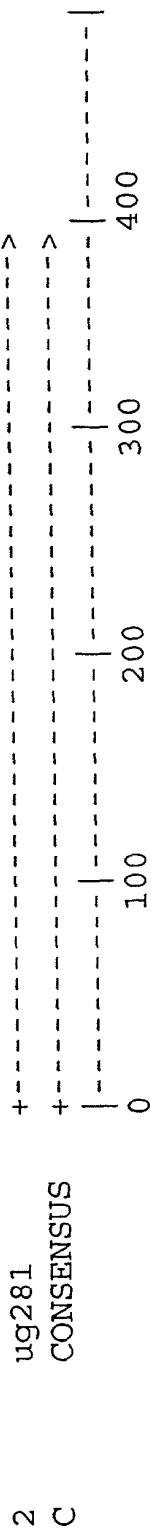


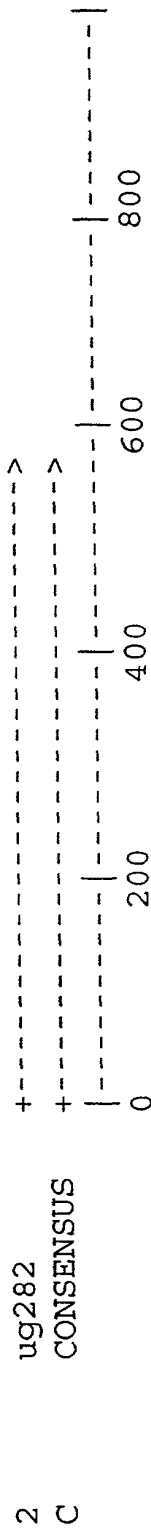
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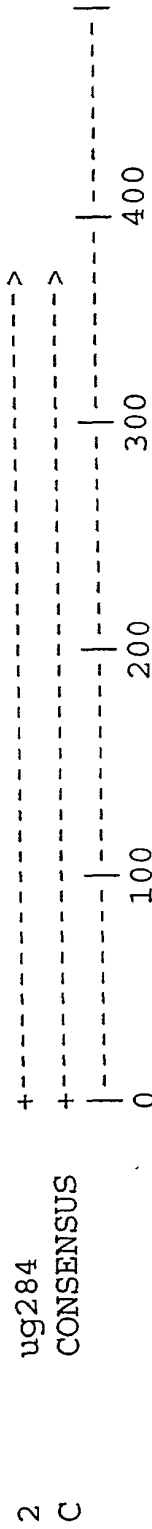
Contig: ug281



Contig: ug282



Contig: ug284



Contig: ug285

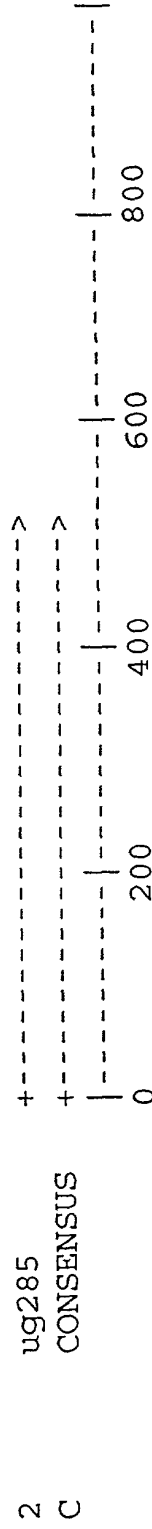
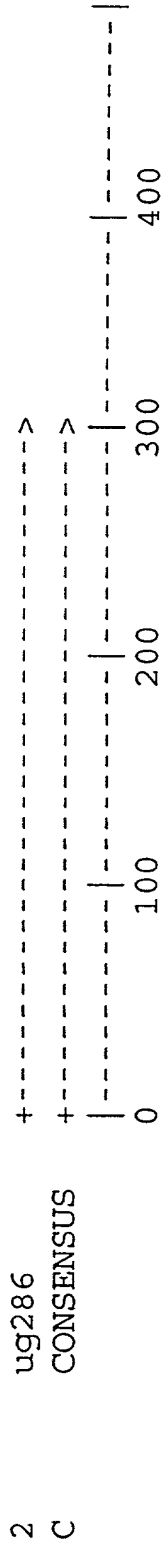


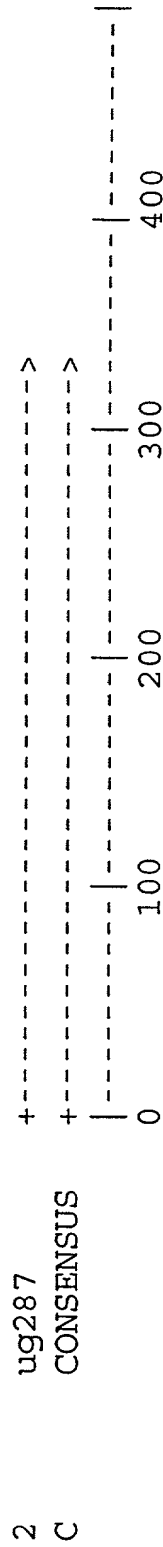
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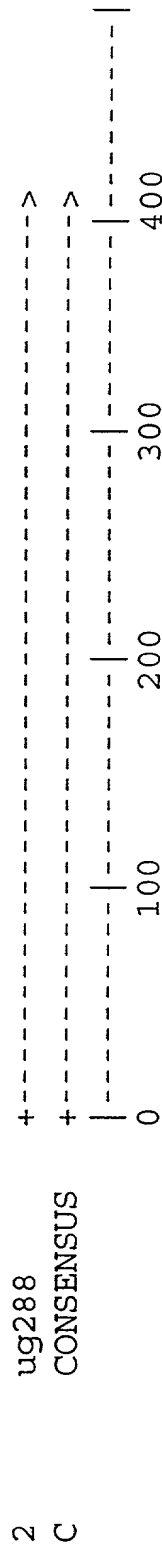
Contig: ug286



Contig: ug287



Contig: ug288



Contig: ug289

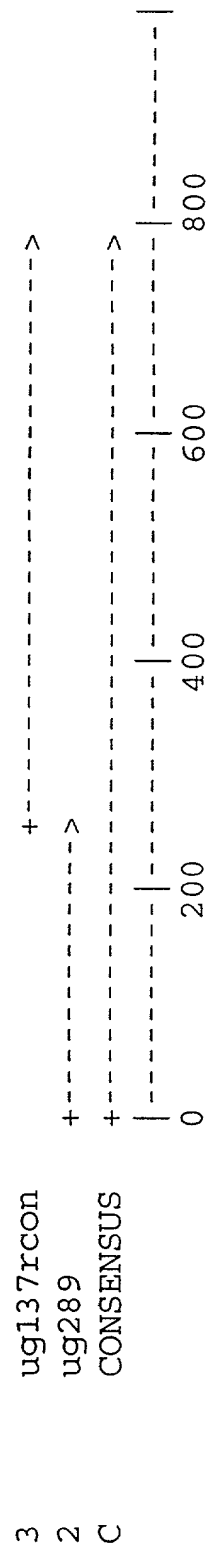


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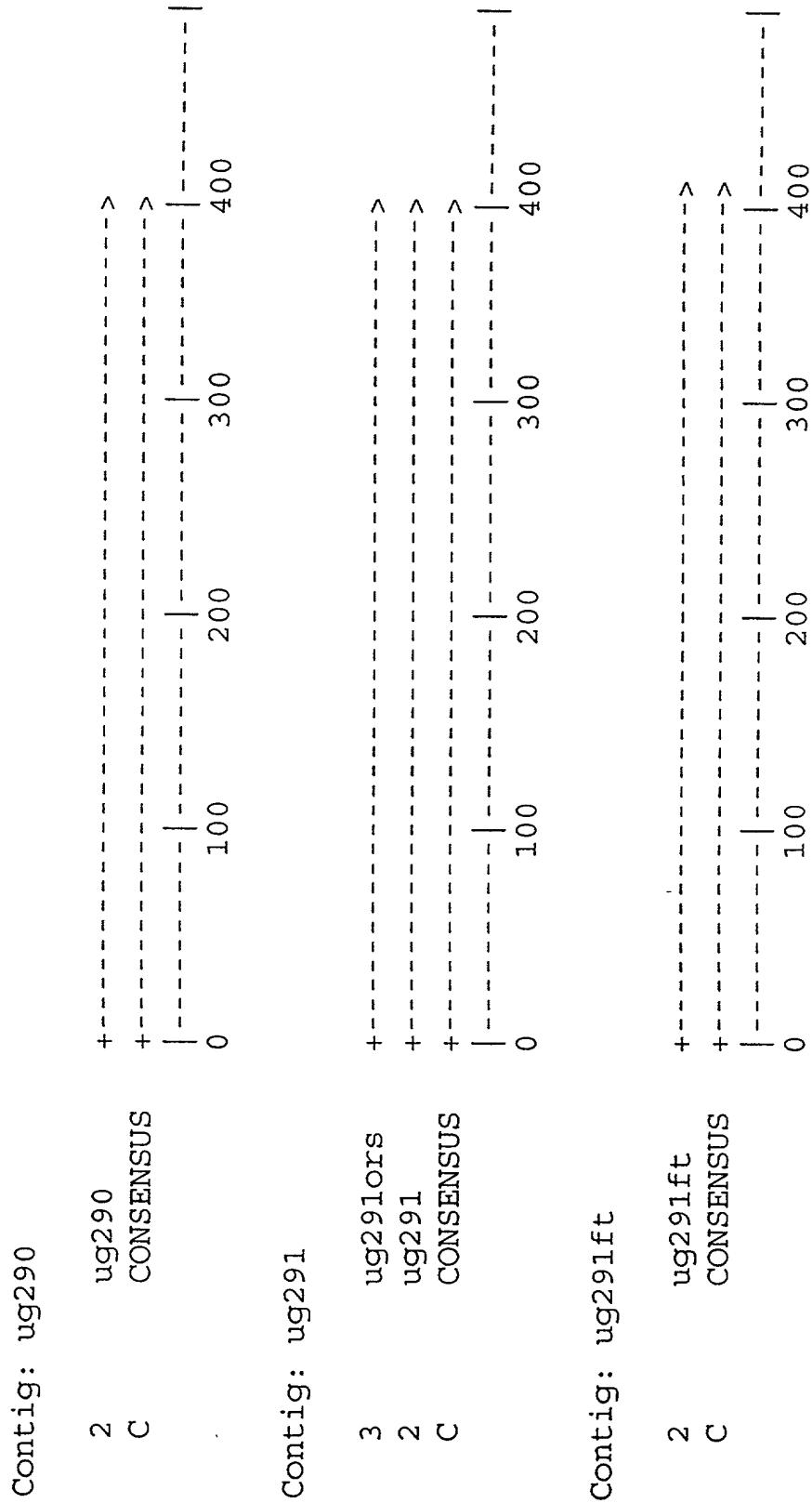
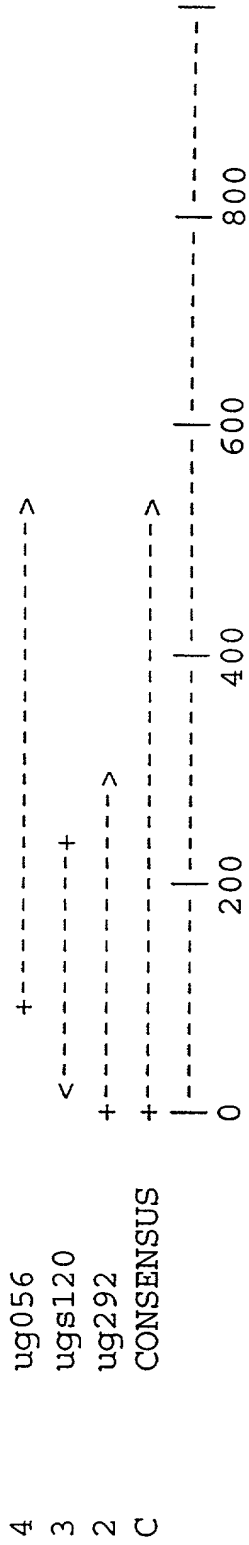


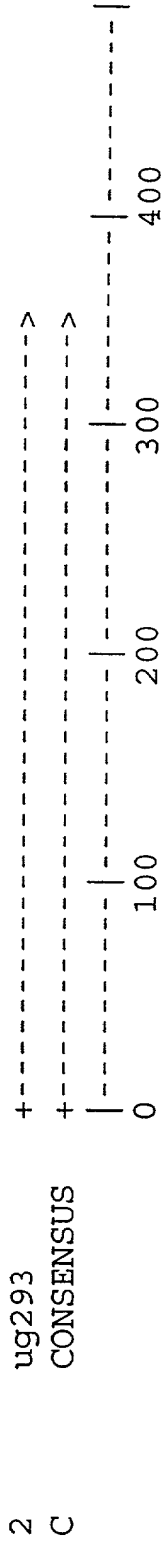
Fig. 8 - 78 of 180

346/472

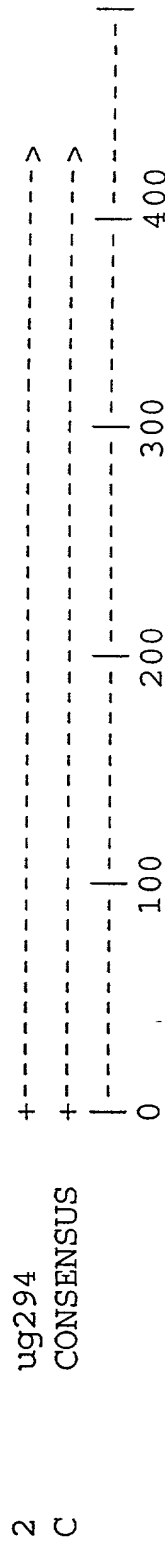
Contig: ug292



Contig: ug293



Contig: ug294



Contig: ug295

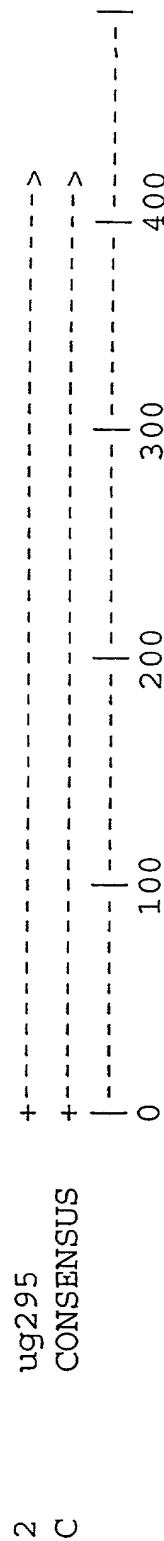
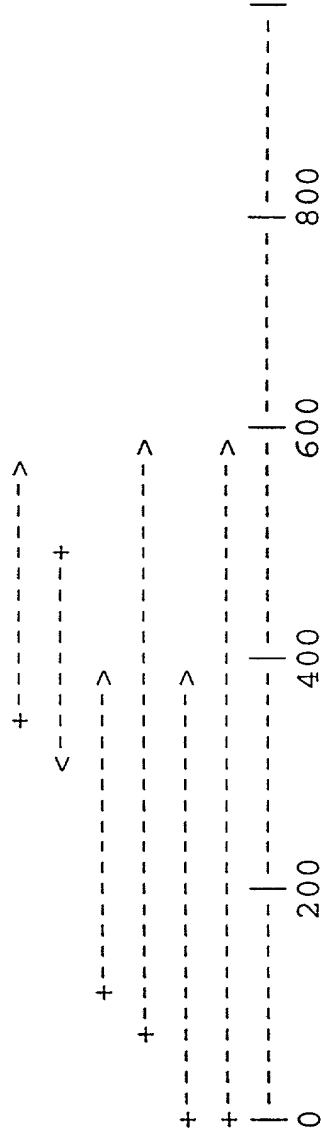


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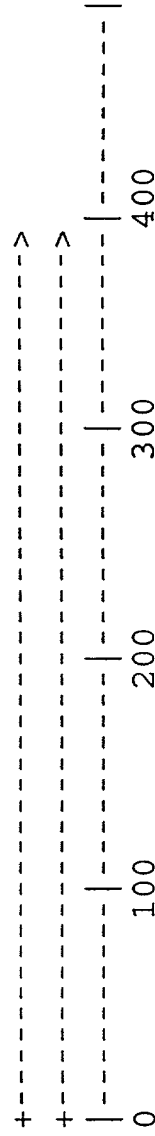
Contig: ug296

6 ug103rcon
 5 ugs094
 4 ug336
 3 ug002rcon
 2 ug296
 C CONSENSUS



Contig: ug297

2 ug297
 C CONSENSUS



Contig: ug298

2 ug298
 C CONSENSUS

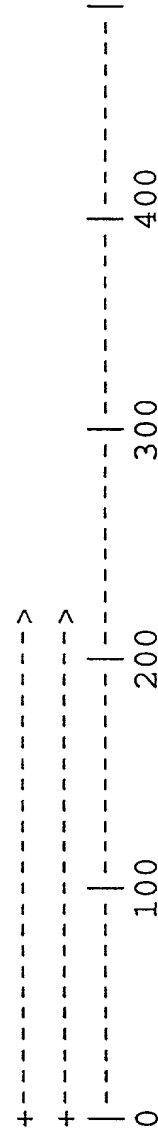
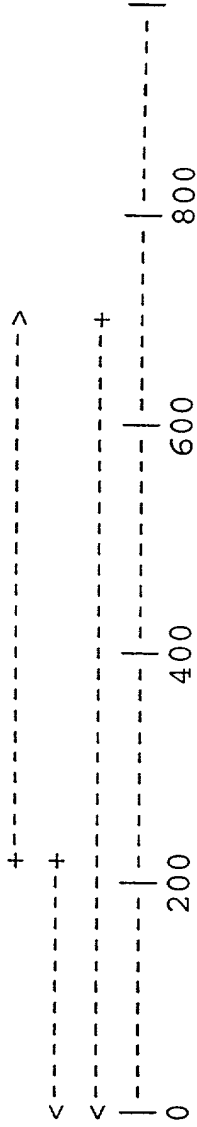


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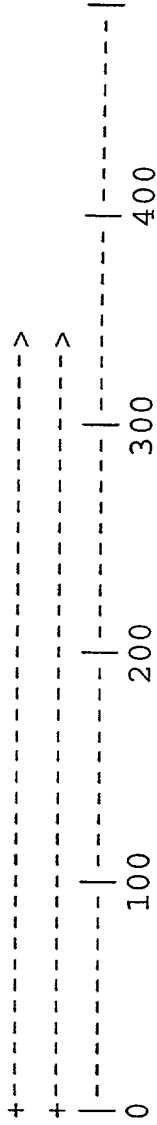
Contig: ug299

3 ua2h6f
 2 ug299
 C CONSENSUS



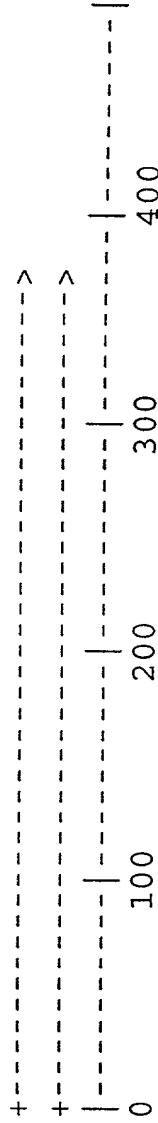
Contig: ug300

2 ug300
 C CONSENSUS



Contig: ug301

2 ug301
 C CONSENSUS



Contig: ug303

2 ug303
 C CONSENSUS

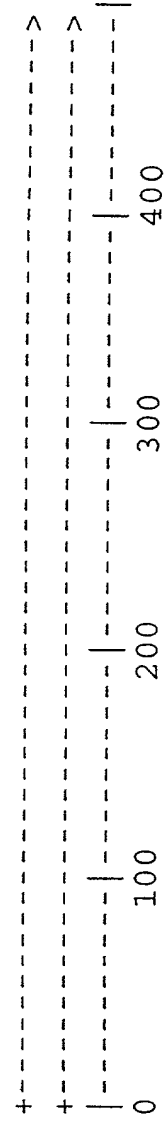


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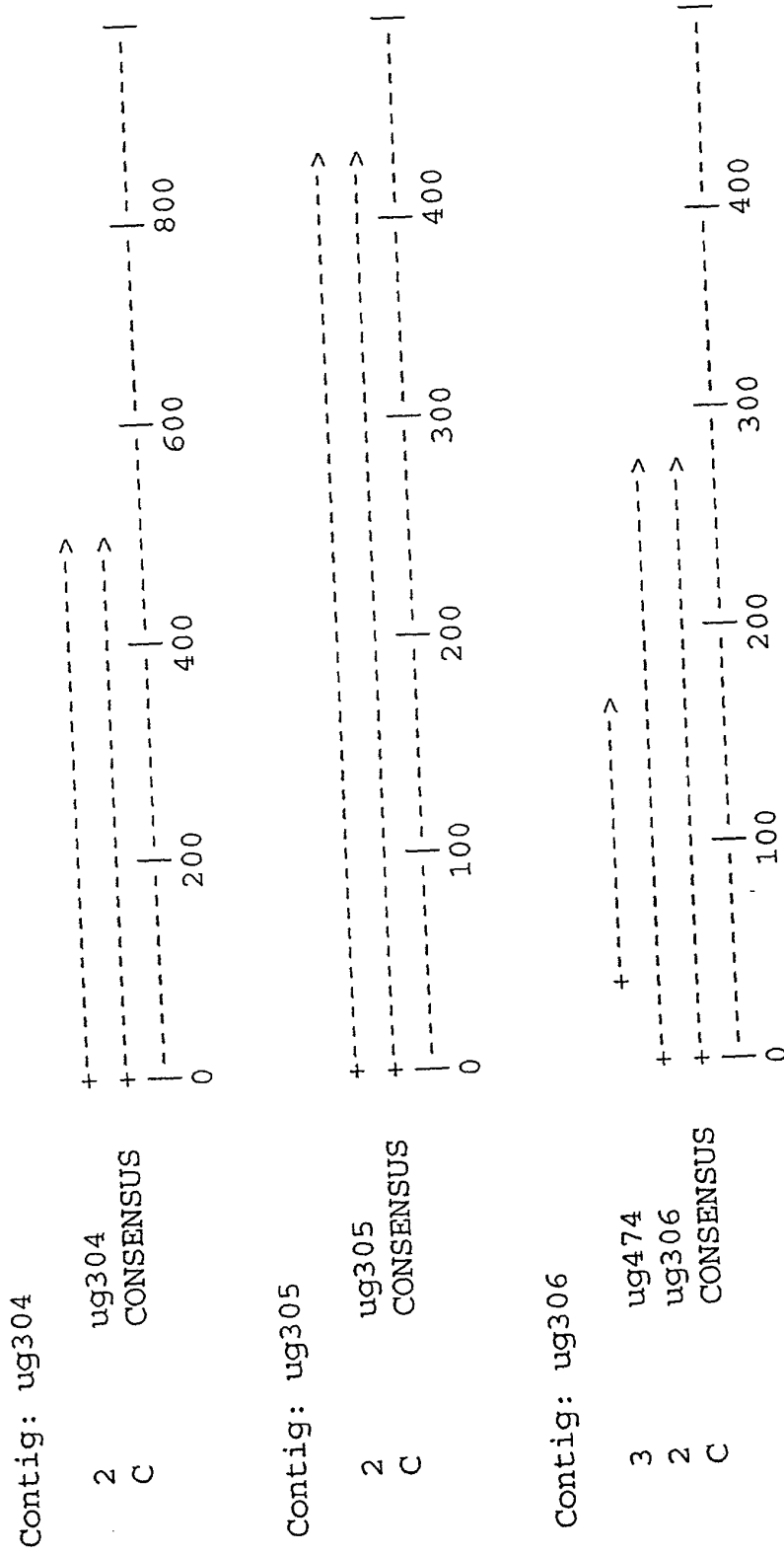


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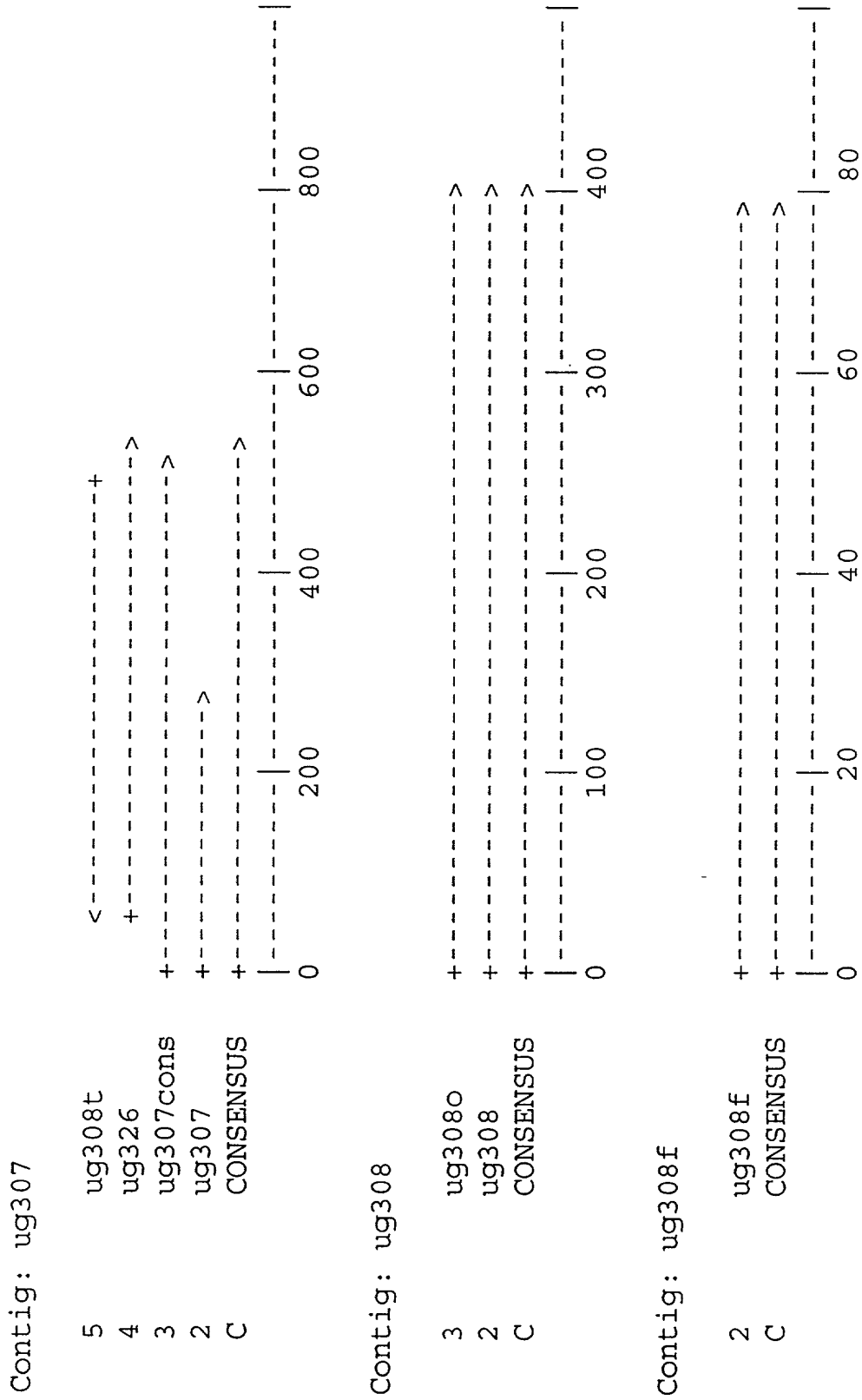
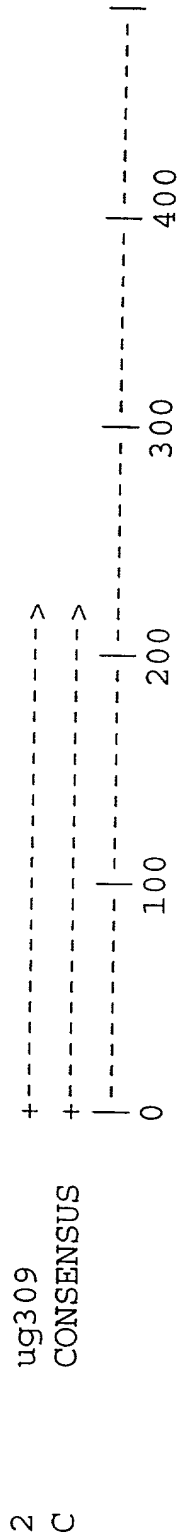


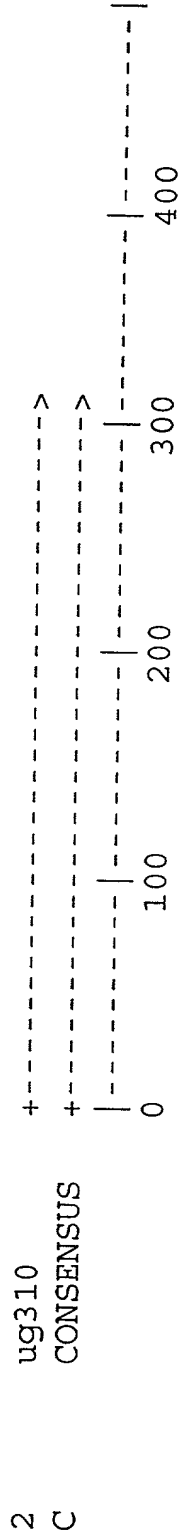
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Contig: ug309



Contig: ug310



Contig: ug311ins+5race

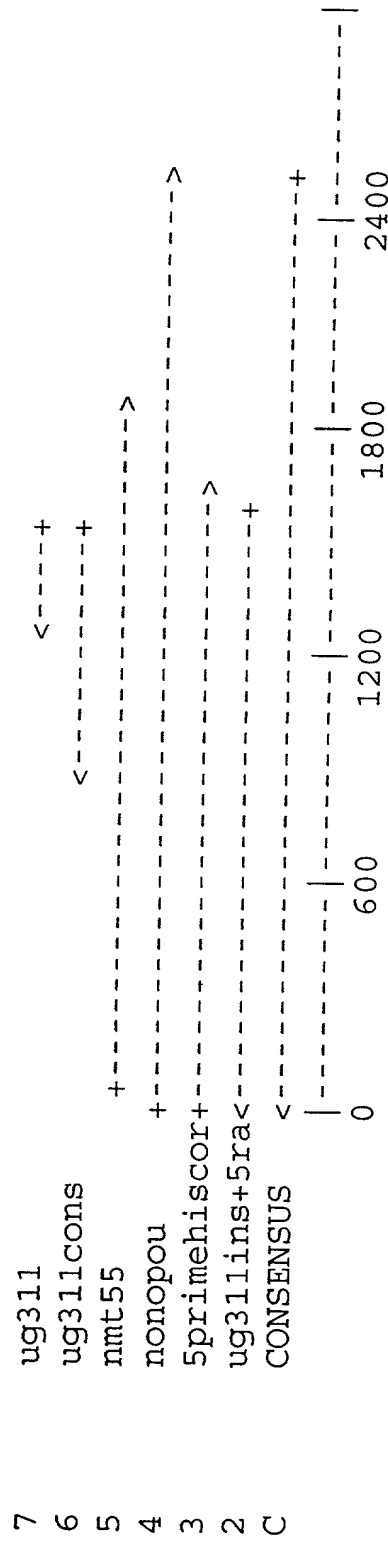
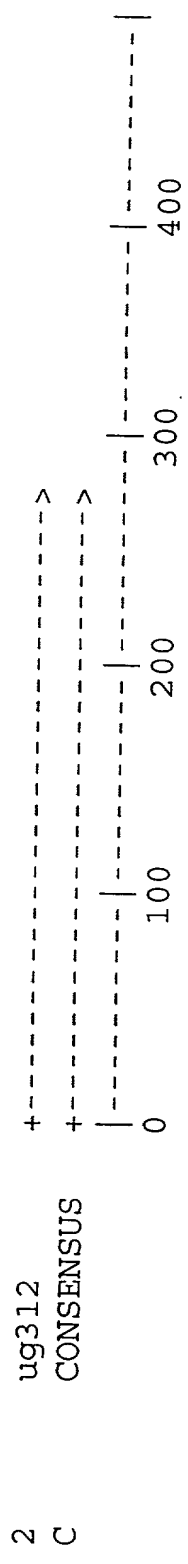


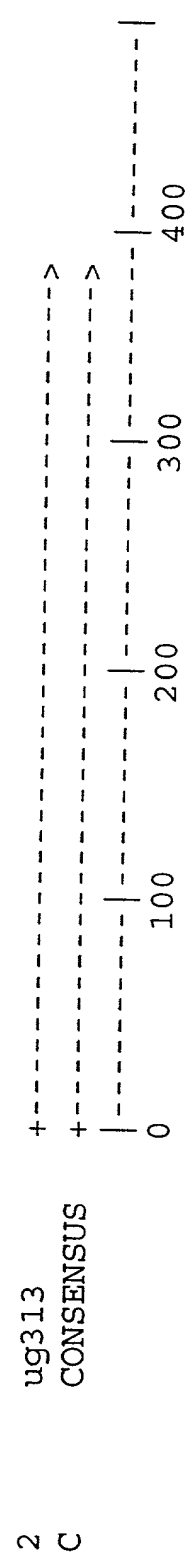
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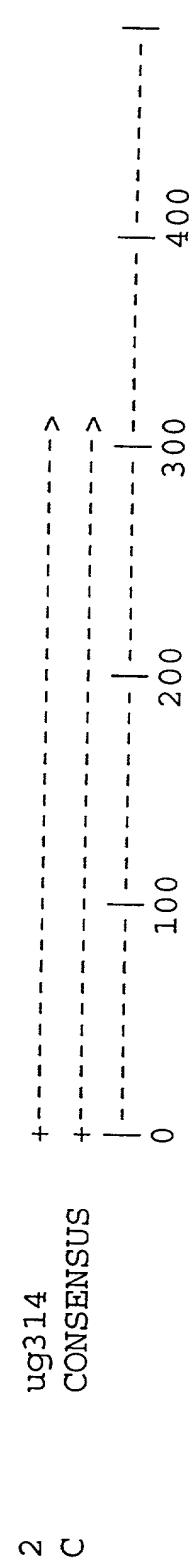
Contig: ug312



Contig: ug313



Contig: ug314



Contig: ug316

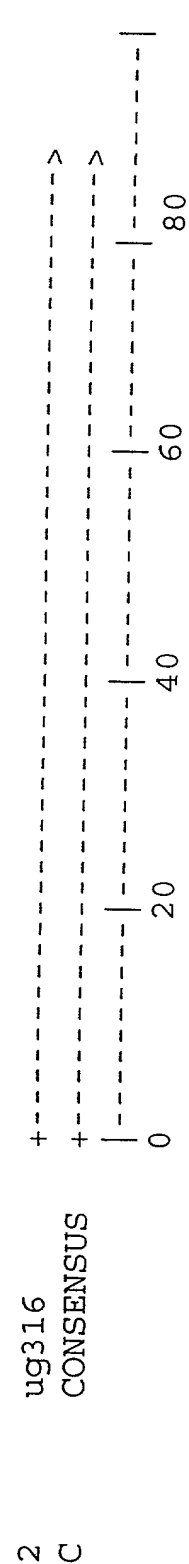
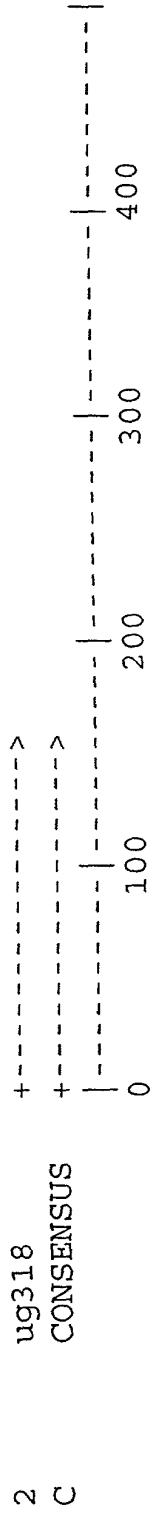


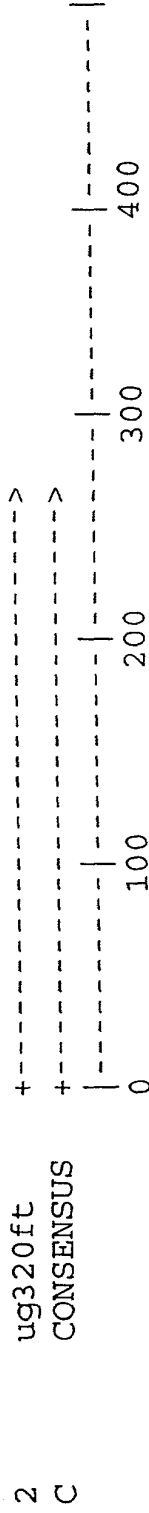
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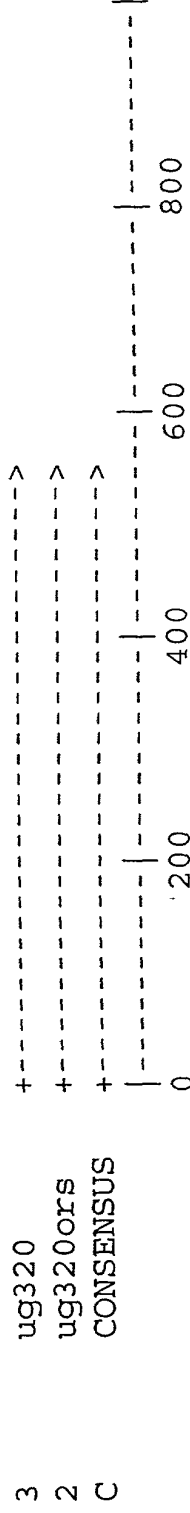
Contig: ug318



Contig: ug320ft



Contig: ug320ors



Contig: ug321

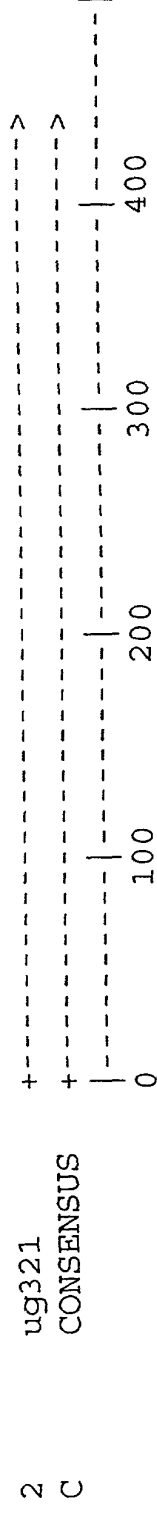
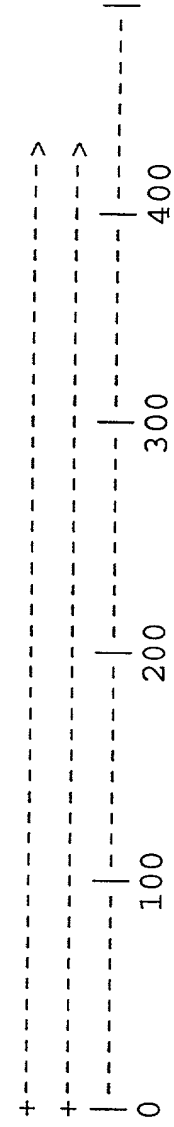


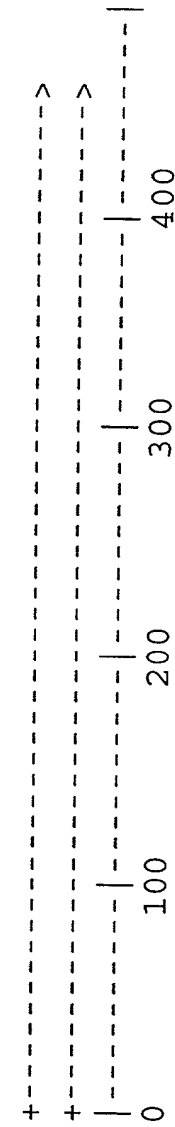
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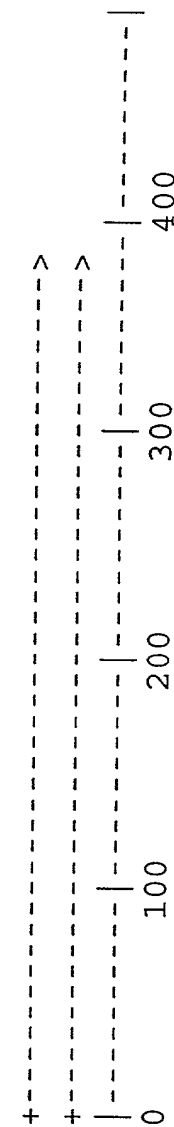
Contig: ug322



Contig: ug323



Contig: ug324



Contig: ug325

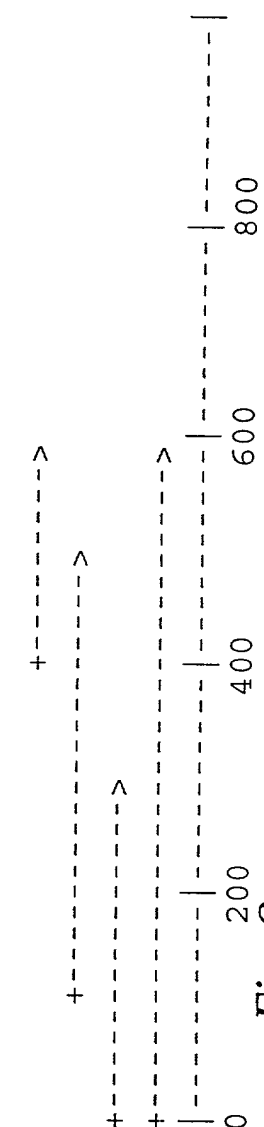
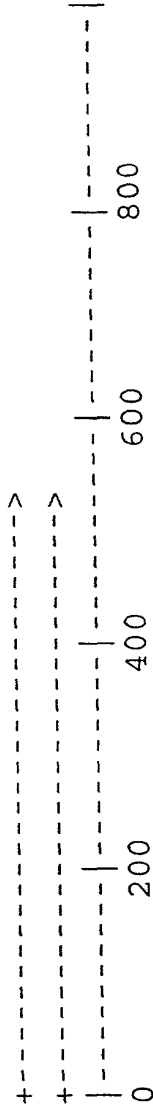


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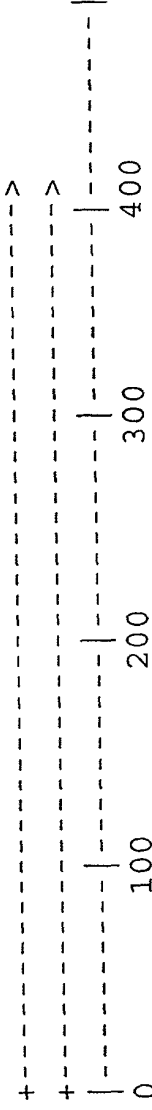
Contig: ug328

2 ug328
 C CONSENSUS



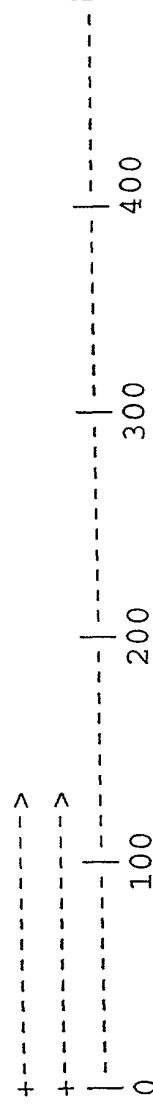
Contig: ug329

2 ug329
 C CONSENSUS



Contig: ug330

2 ug330
 C CONSENSUS



Contig: ug331

3 ug091rcon
 2 ug331
 C CONSENSUS

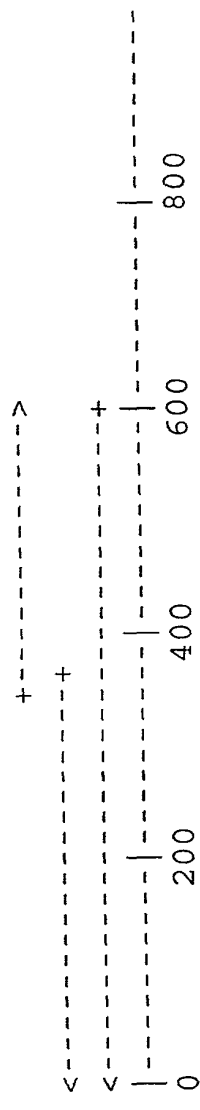
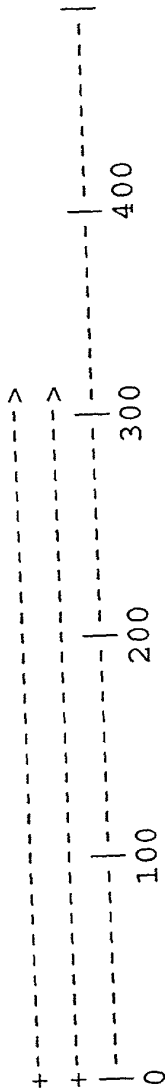


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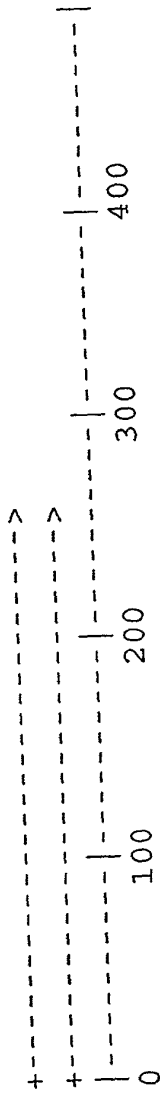
Contig: ug332

2 ug332
 C CONSENSUS



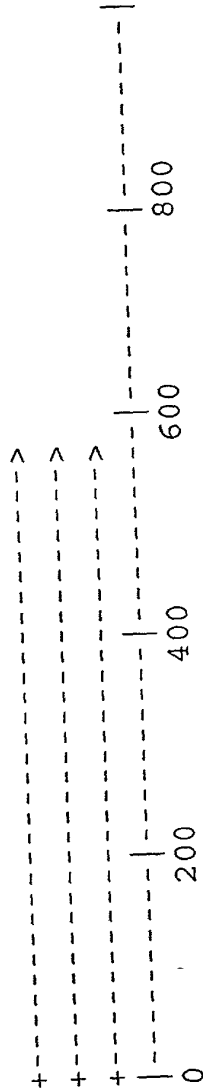
Contig: ug333

2 ug333
 C CONSENSUS



Contig: ug334

3 ug334ors
 2 ug334
 C CONSENSUS



Contig: ug334ft
 2 ug334ft
 C CONSENSUS

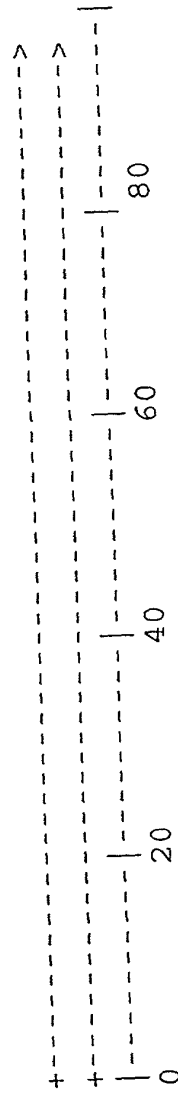
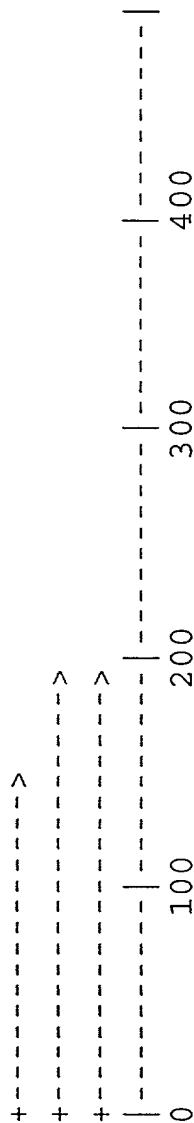


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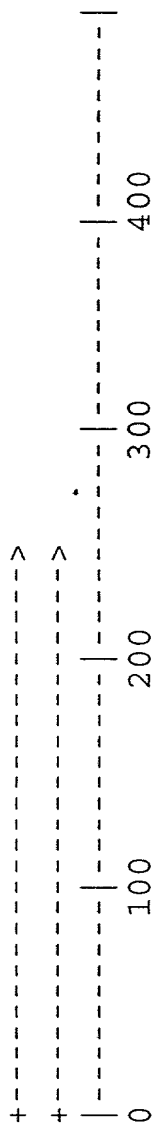
Contig: ug335

3 ug335ors
 2 ug335
 C CONSENSUS



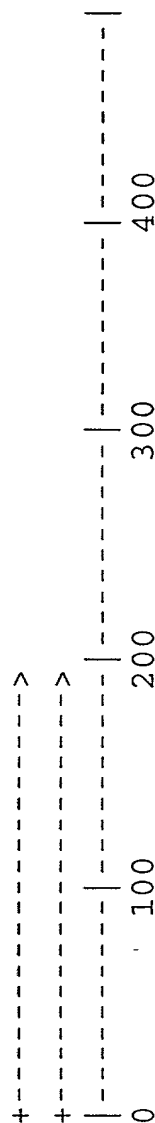
Contig: ug335t

2 ug335t
 C CONSENSUS



Contig: ug337

2 ug337
 C CONSENSUS



Contig: ug338

2 ug338
 C CONSENSUS

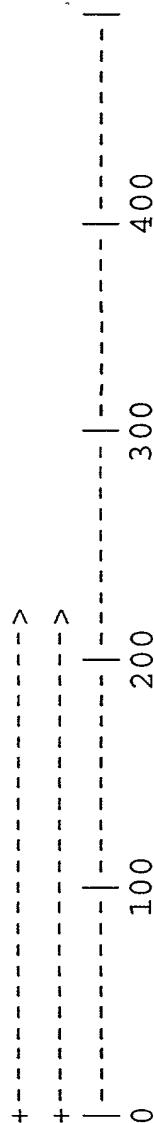
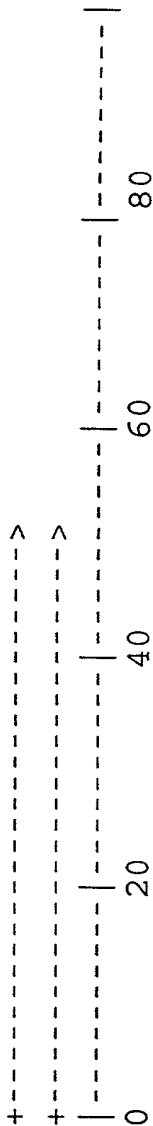


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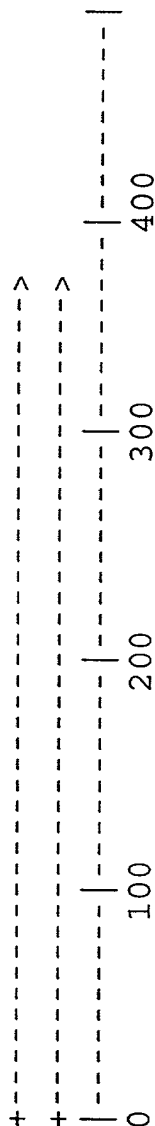
Contig: ug339

2 ug339
 C CONSENSUS



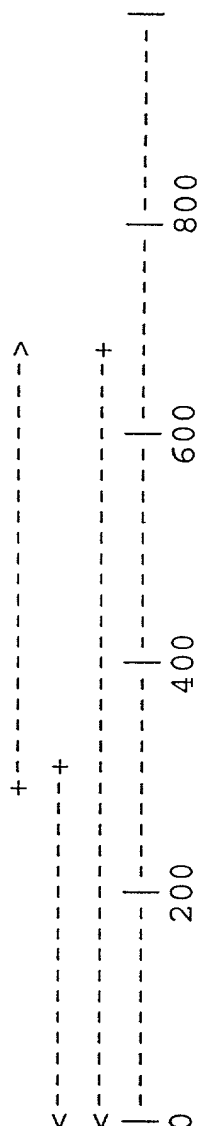
Contig: ug341

2 ug341
 C CONSENSUS



Contig: ug342

3 ug057rcon
 2 ug342
 C CONSENSUS



Contig: ug343

2 ug343
 C CONSENSUS

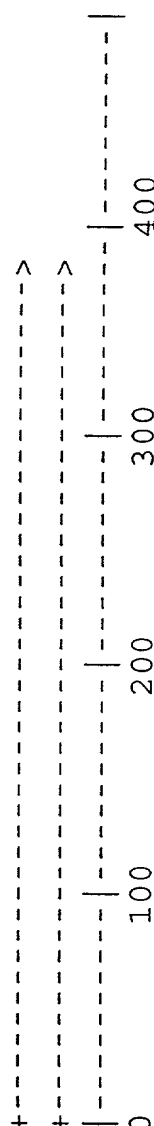
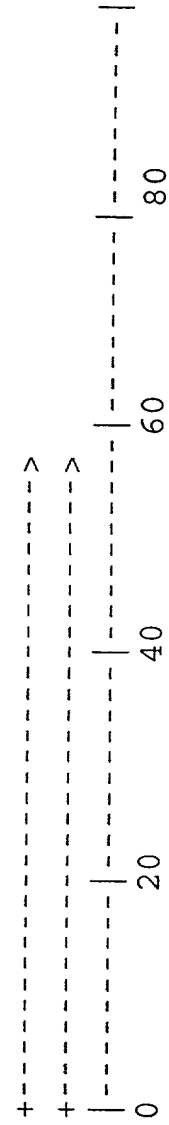


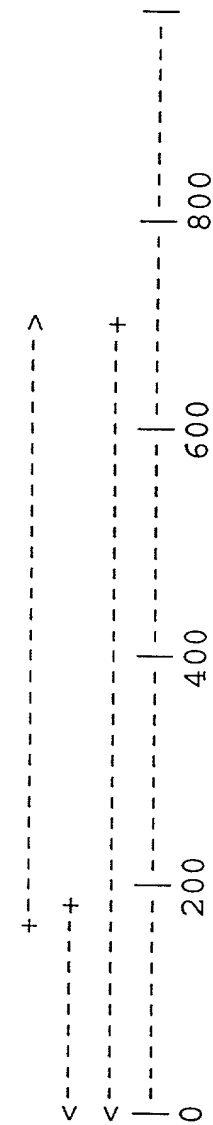
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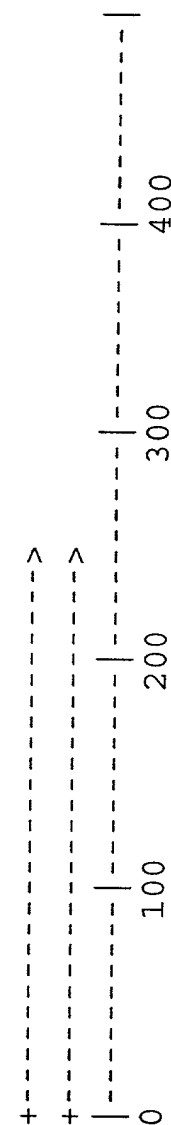
Contig: ug344



Contig: ug345



Contig: ug346



Contig: ug347

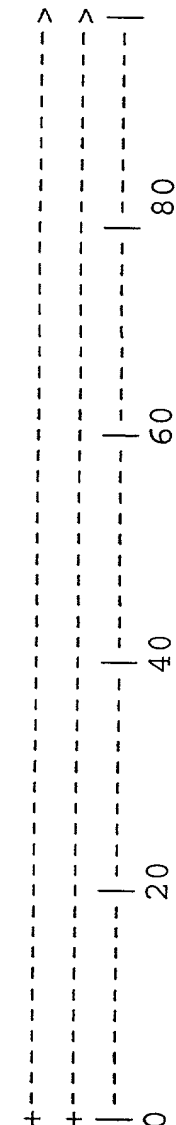
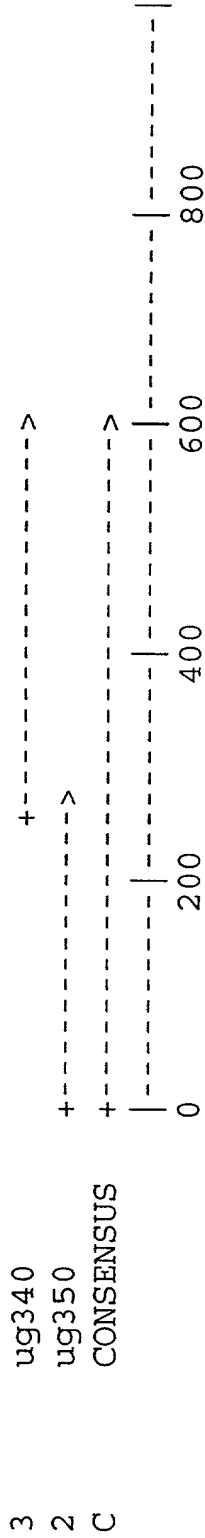


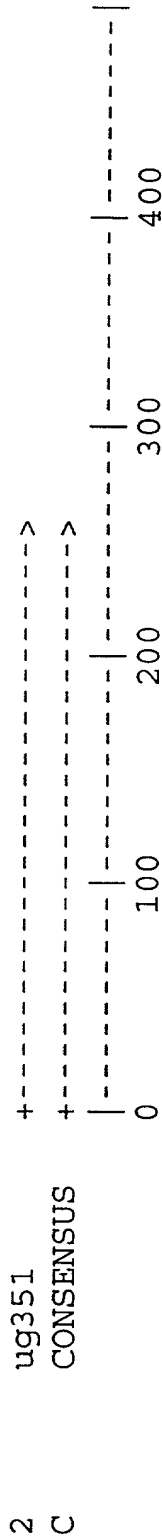
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Contig: ug350



Contig: ug351



Contig: ug352

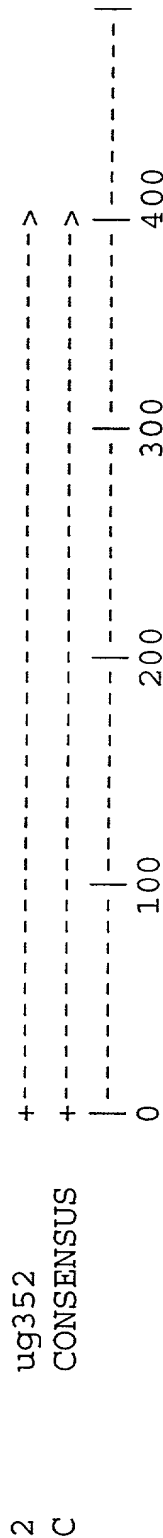
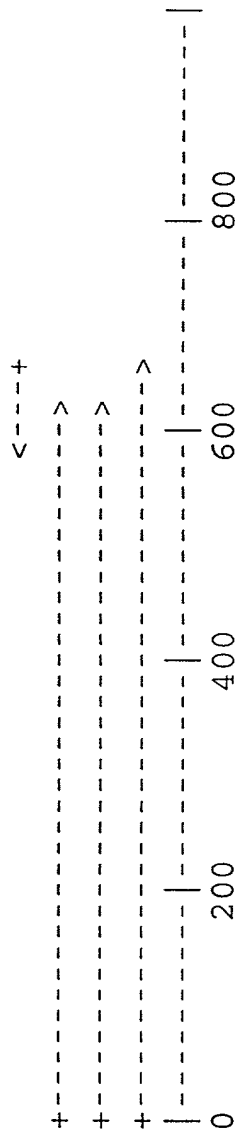


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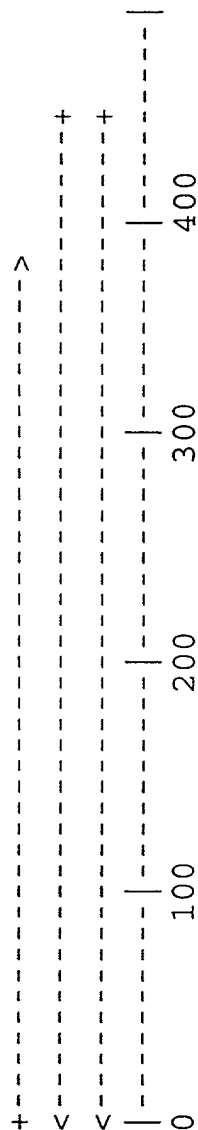
Contig: ug353

4 ug353ft
 3 ug353ors
 2 ug353
 C CONSENSUS



Contig: ug354cons

3 ug354
 2 ug354cons
 C CONSENSUS



Contig: ug355

2 ug355
 C CONSENSUS

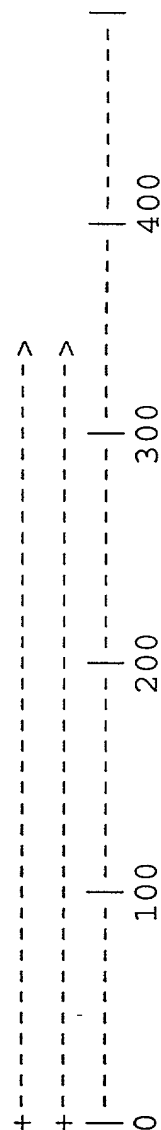
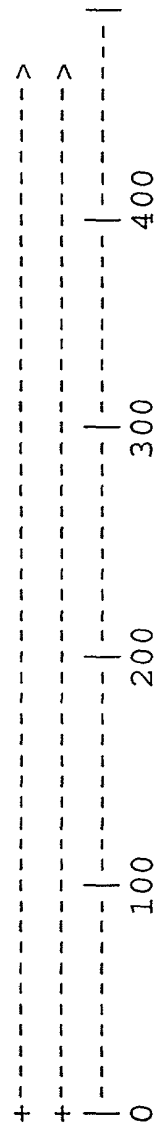


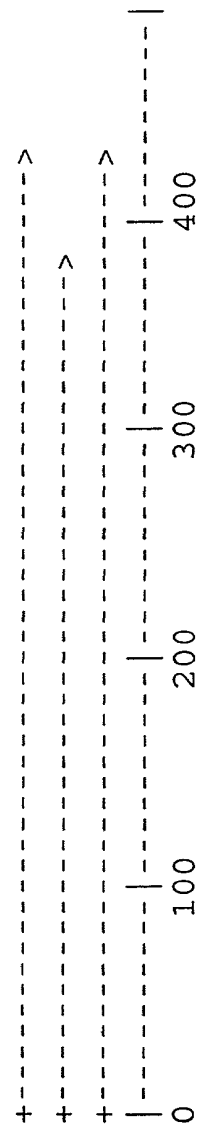
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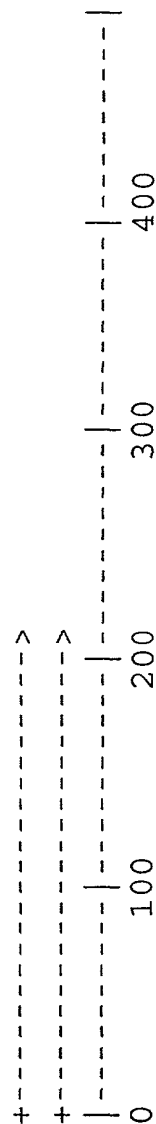
Contig: ug356



Contig: ug357



Contig: ug357ft



Contig: ug358

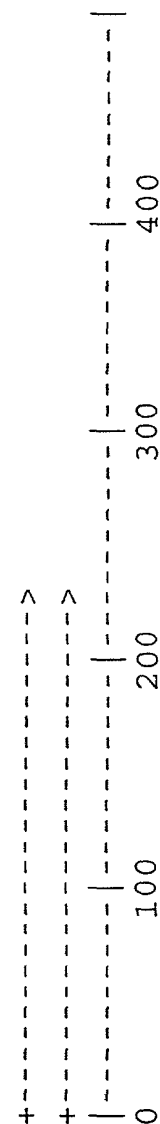
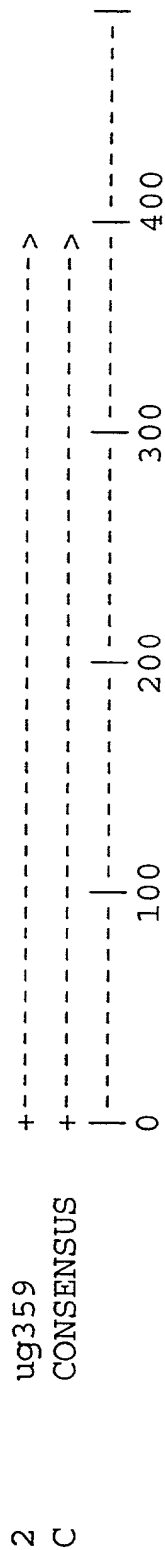


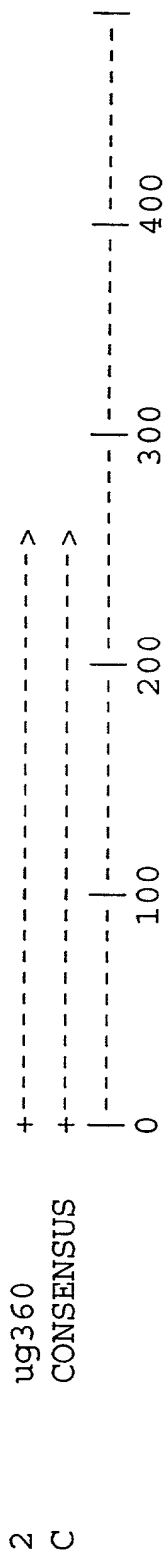
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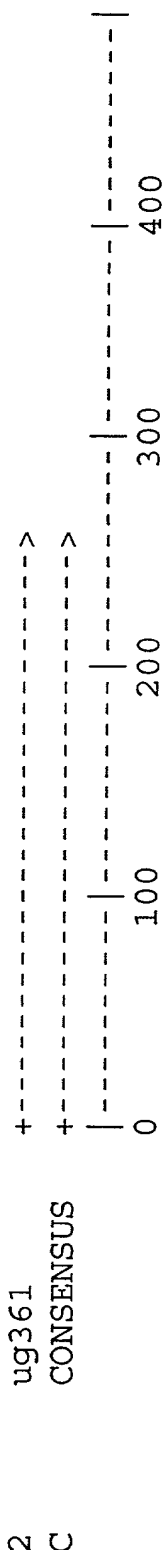
Contig: ug359



Contig: ug360



Contig: ug361



Contig: ug363

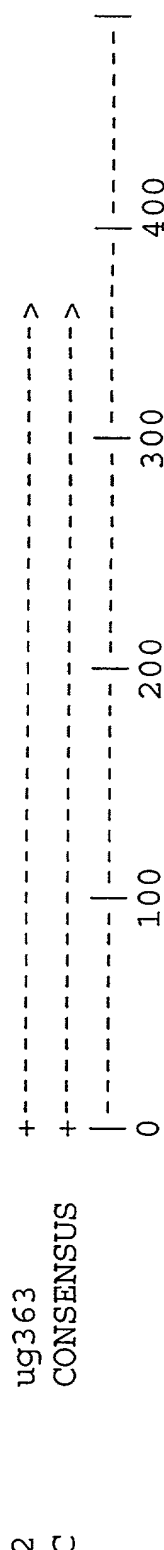


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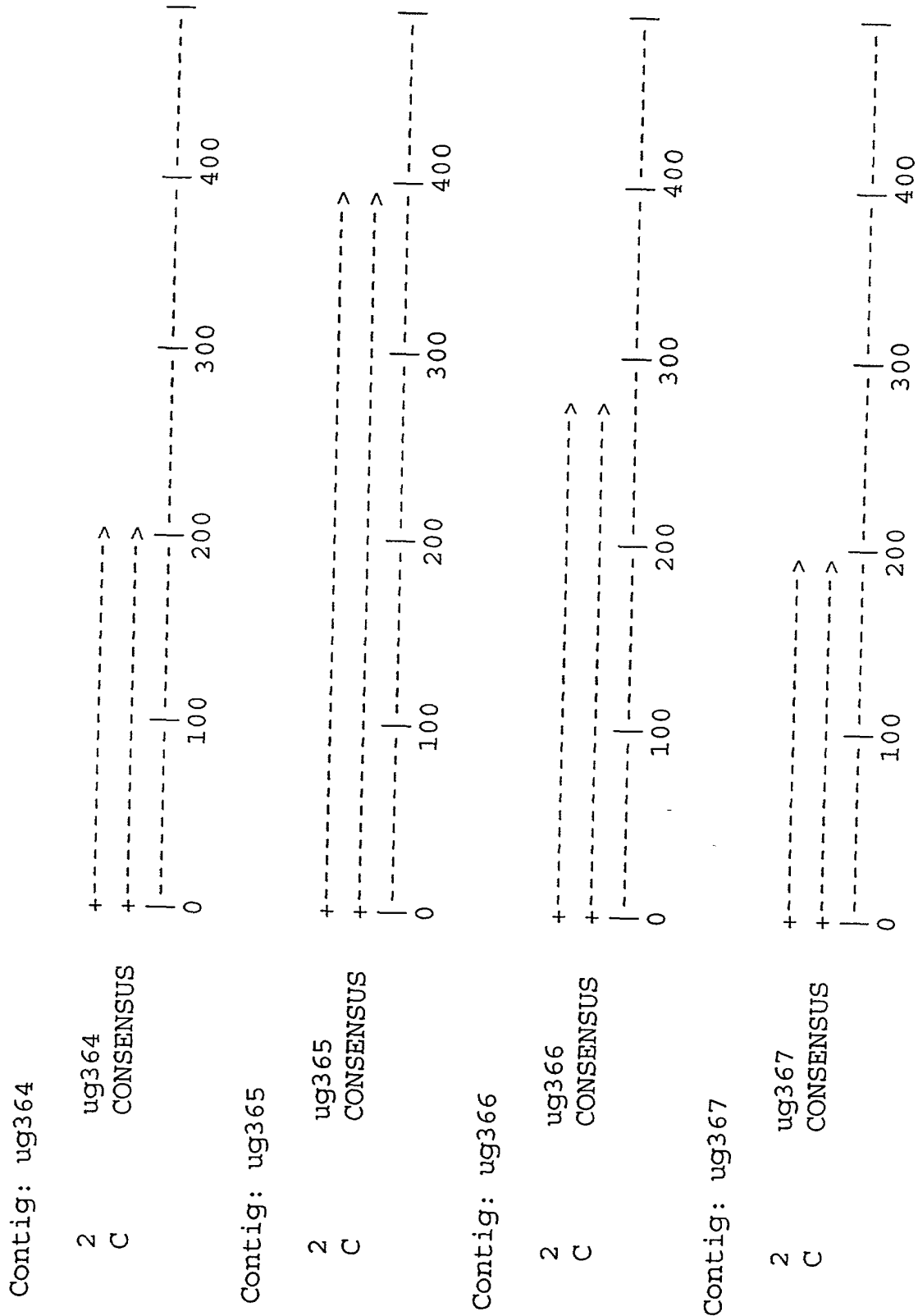
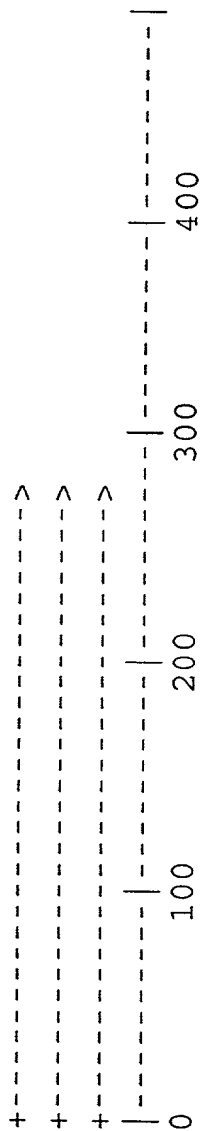


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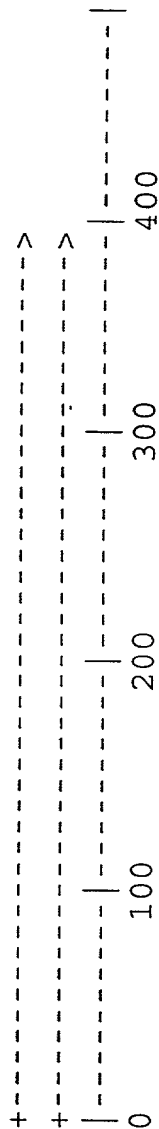
Contig: ug368

3 ug368c2
 2 ug368
 C CONSENSUS



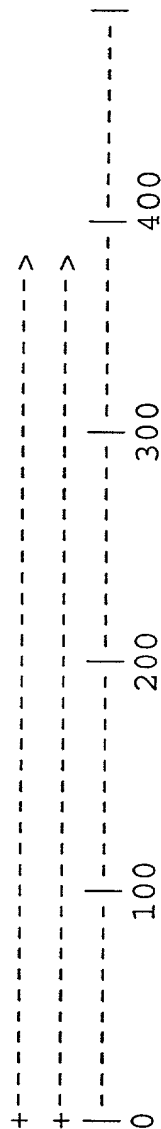
Contig: ug369

2 ug369
 C CONSENSUS



Contig: ug370

2 ug370
 C CONSENSUS



Contig: ug371

3 ug371cons
 2 ug371
 C CONSENSUS

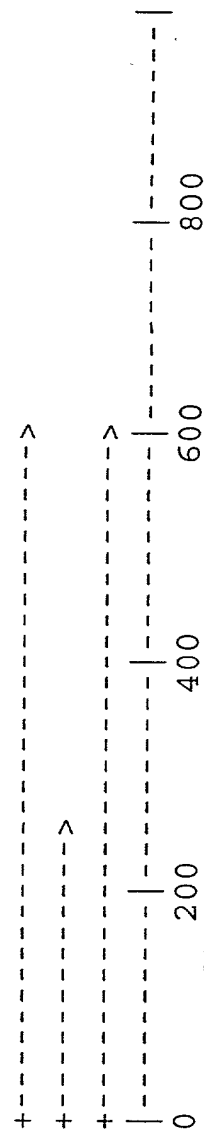
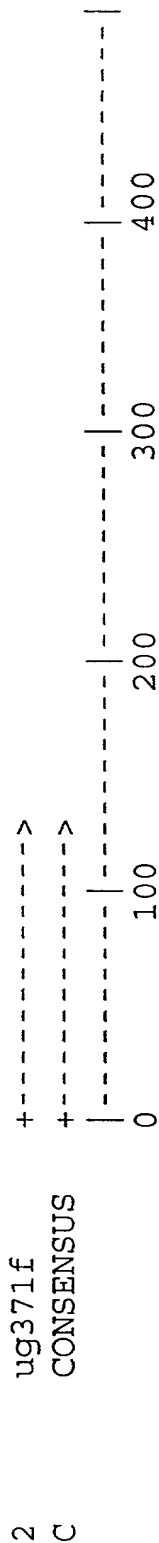


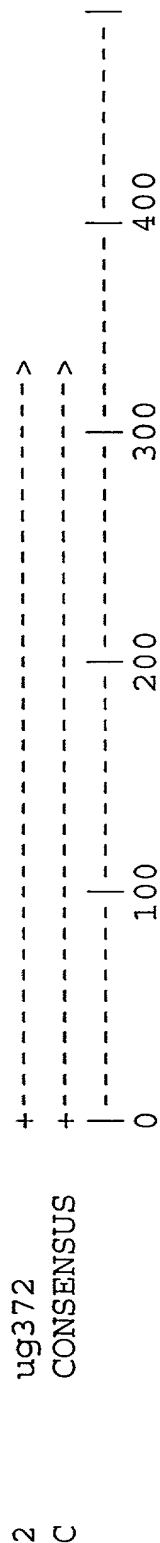
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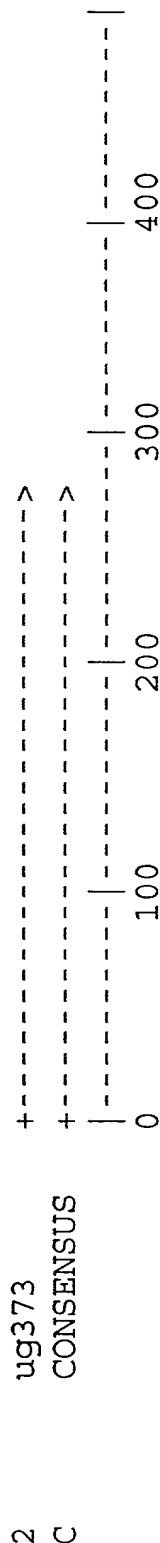
Contig: ug371f



Contig: ug372



Contig: ug373



Contig: ug374

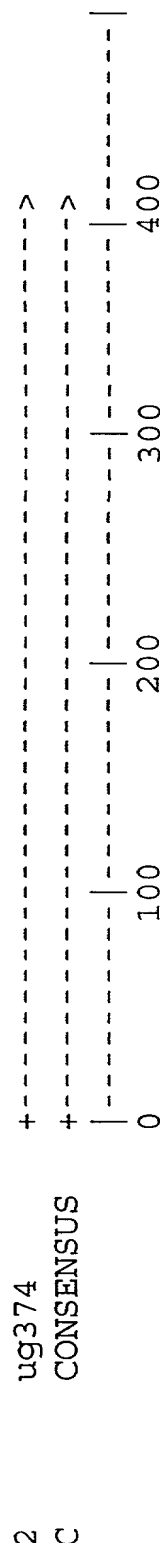
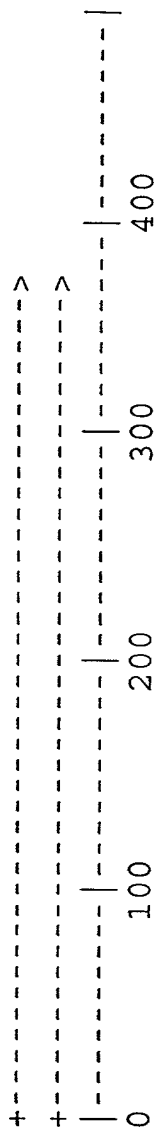


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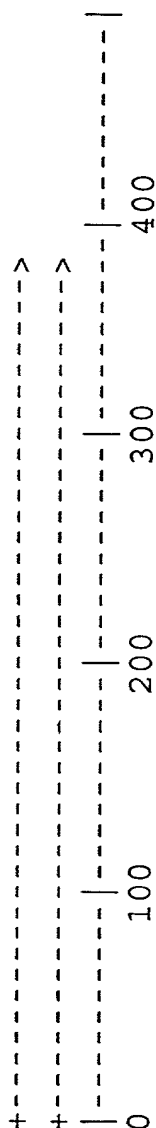
Contig: ug376

2 ug376
 C CONSENSUS



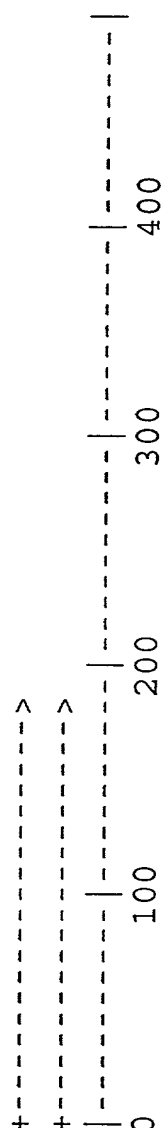
Contig: ug377

2 ug377
 C CONSENSUS



Contig: ug378

2 ug378
 C CONSENSUS



Contig: ug379

4 ug317cons
 3 ug317
 2 ug379
 C CONSENSUS

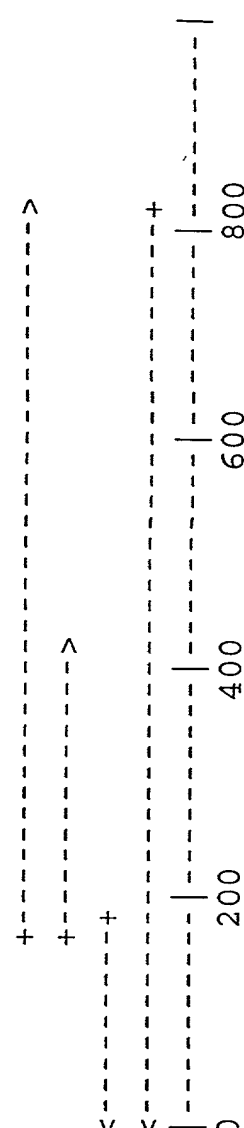
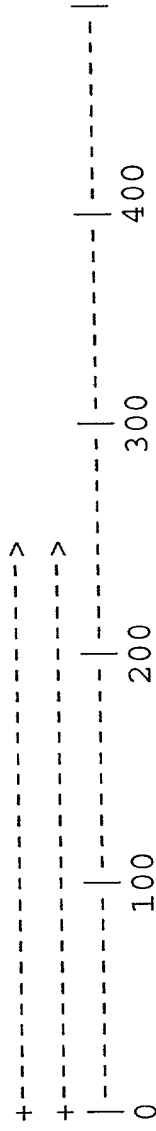


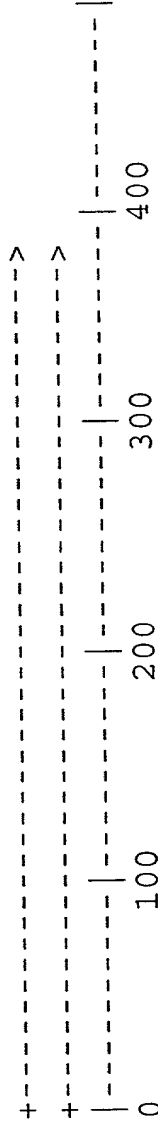
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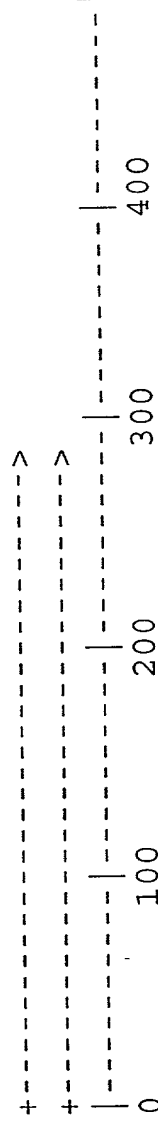
Contig: ug380



Contig: ug381



Contig: ug382



Contig: ug383
2 ug383
C CONSENSUS

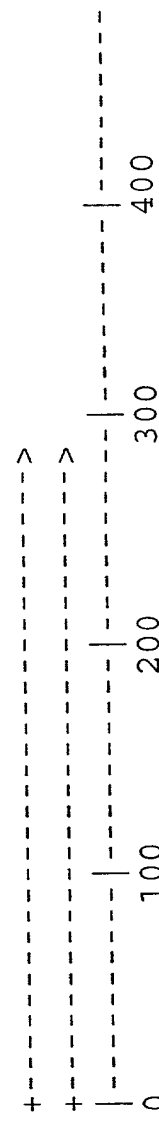
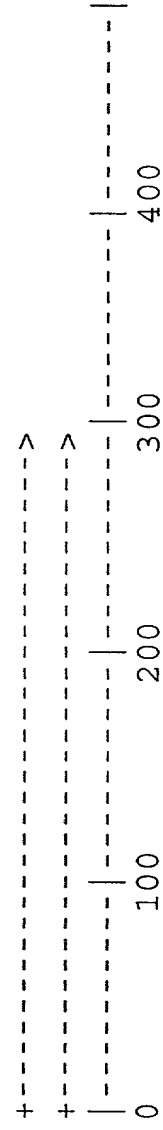


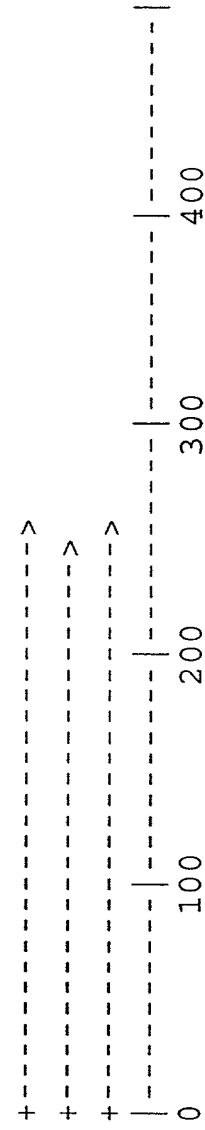
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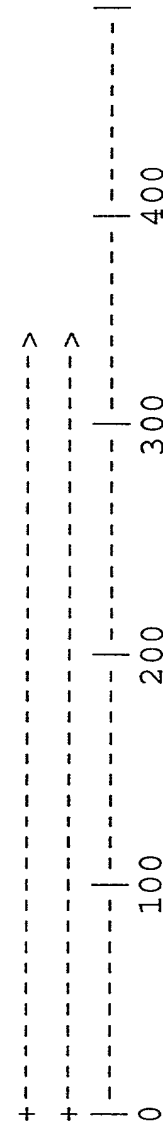
Contig: ug384



Contig: ug385



Contig: ug387



Contig: ug388

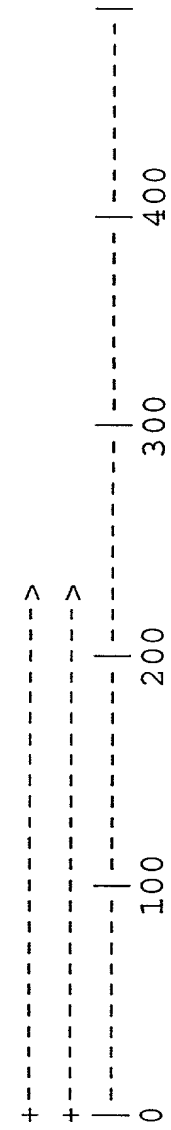
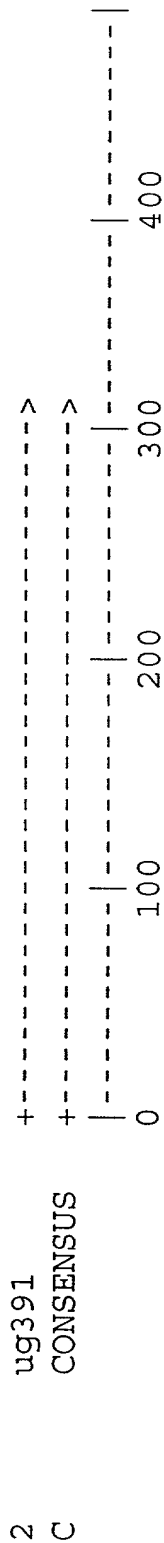


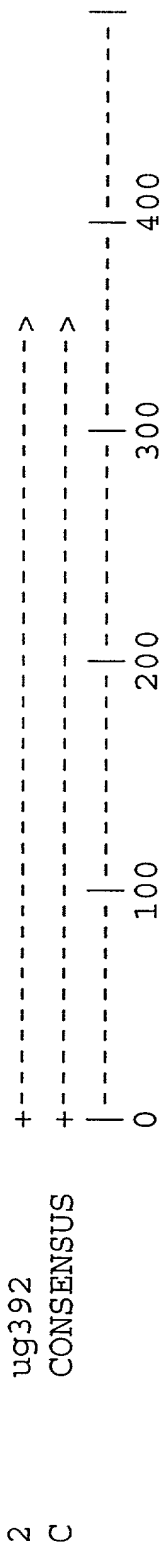
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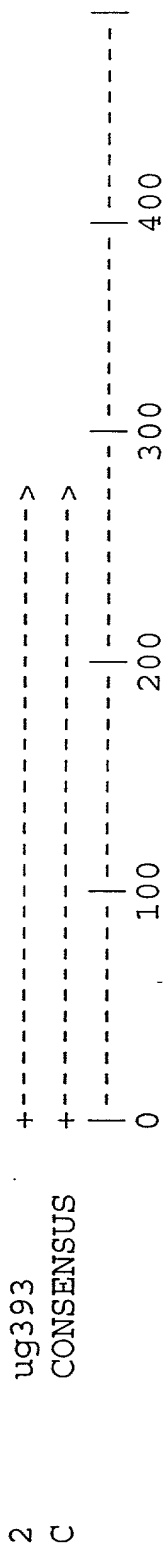
Contig: ug391



Contig: ug392



Contig: ug393



Contig: ug394

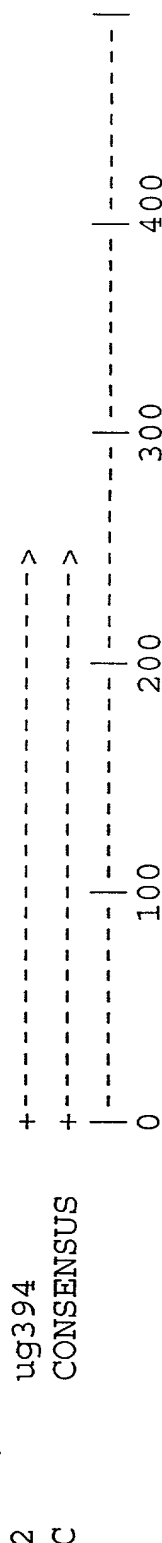
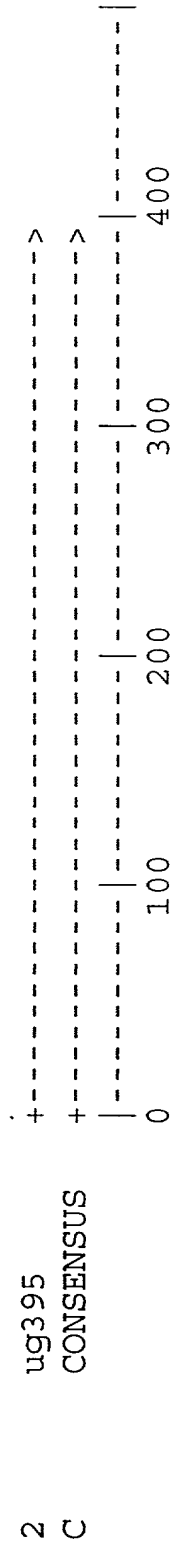


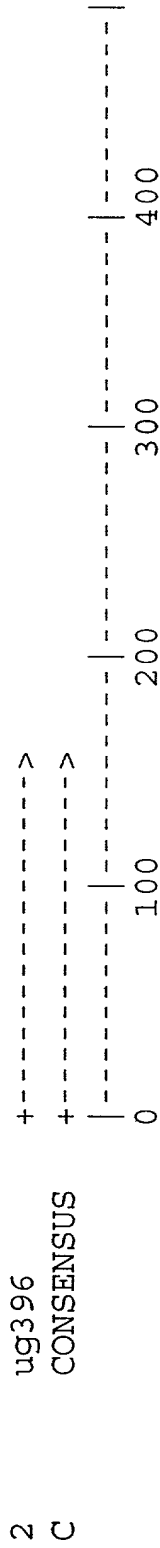
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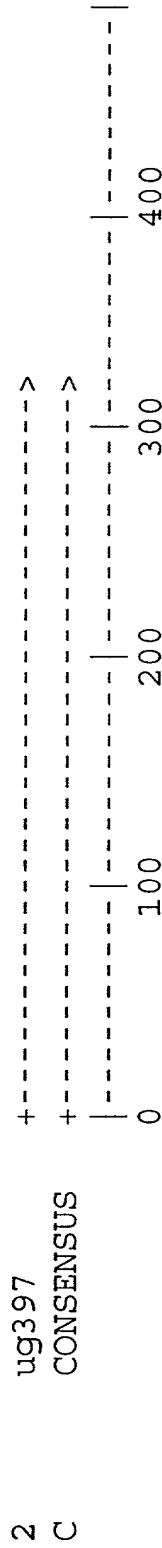
Contig: ug395



Contig: ug396



Contig: ug397



Contig: ug398

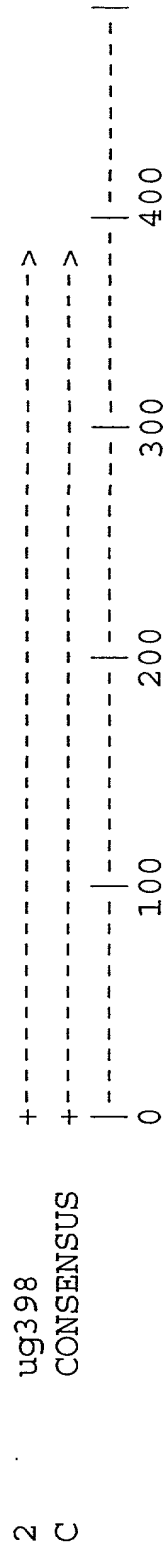
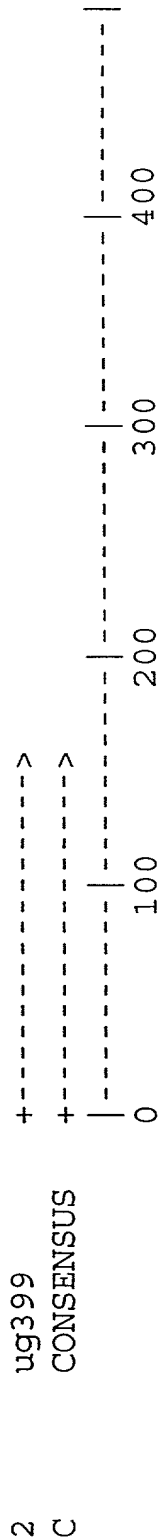


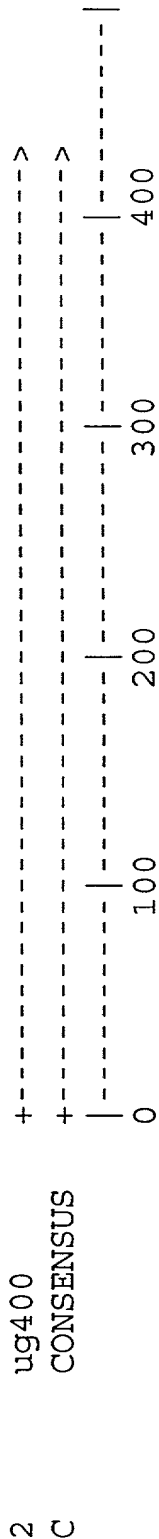
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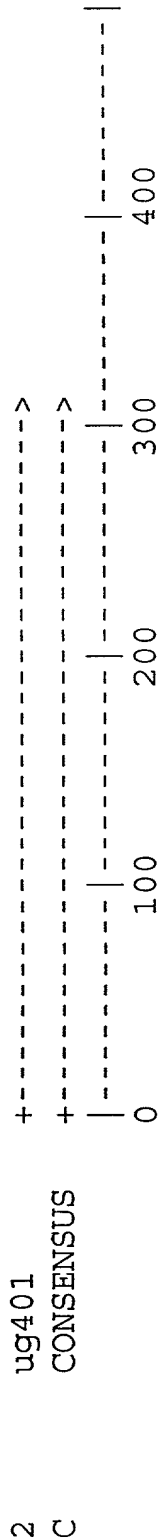
Contig: ug399



Contig: ug400



Contig: ug401



Contig: ug402

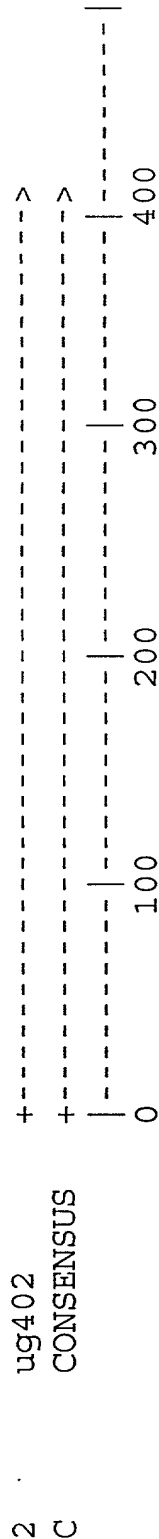
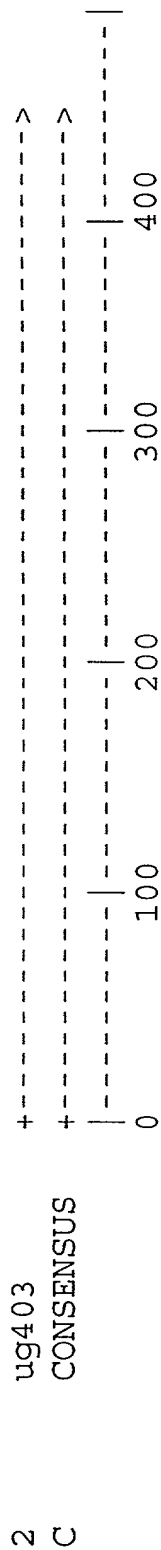


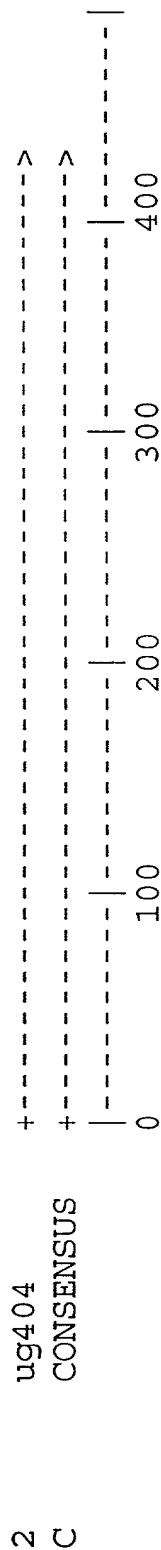
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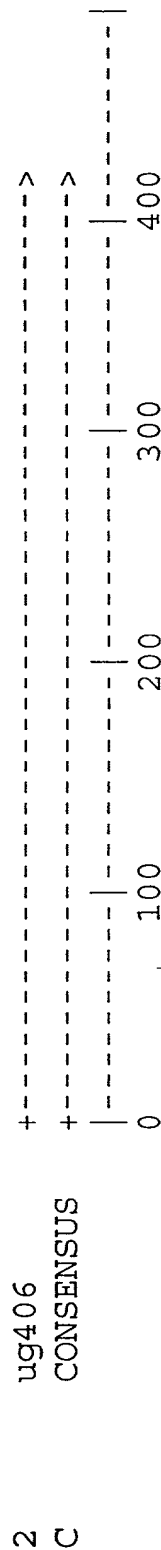
Contig: ug403



Contig: ug404



Contig: ug406



Contig: ug407

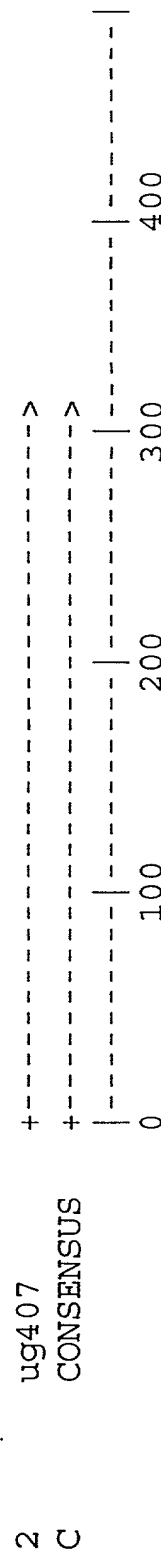
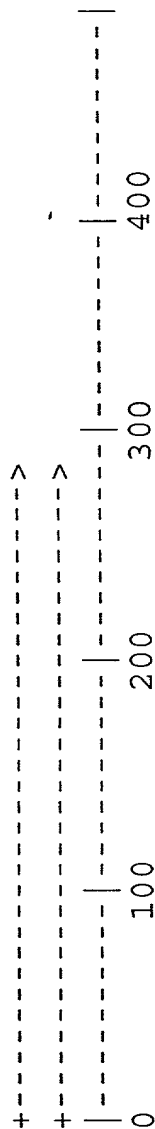


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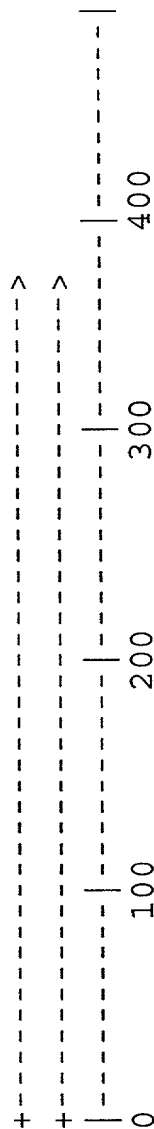
Contig: ug408

2 ug408
 C CONSENSUS



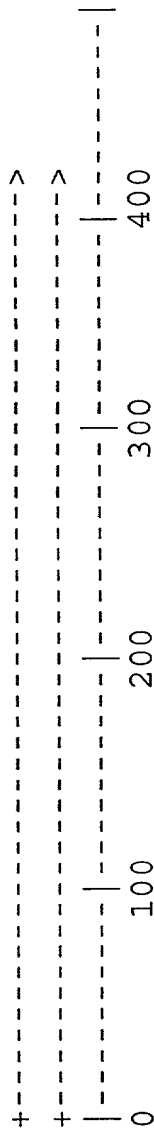
Contig: ug412

2 ug412
 C CONSENSUS



Contig: ug413

2 ug413
 C CONSENSUS



Contig: ug414

3 ug222
 2 ug414
 C CONSENSUS

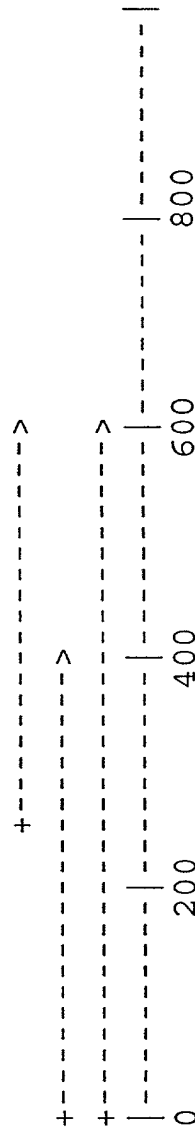
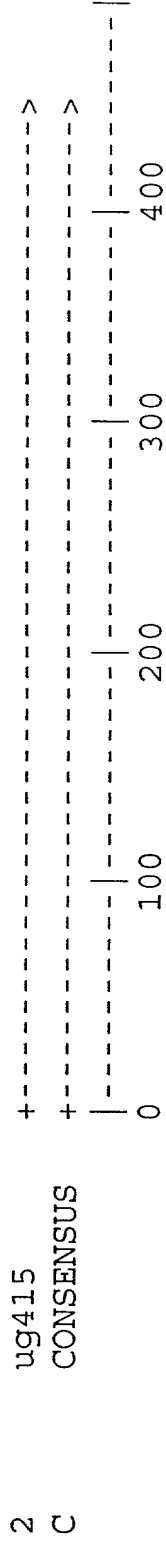


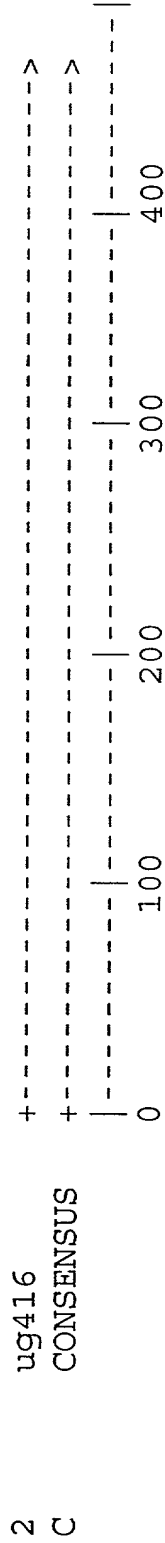
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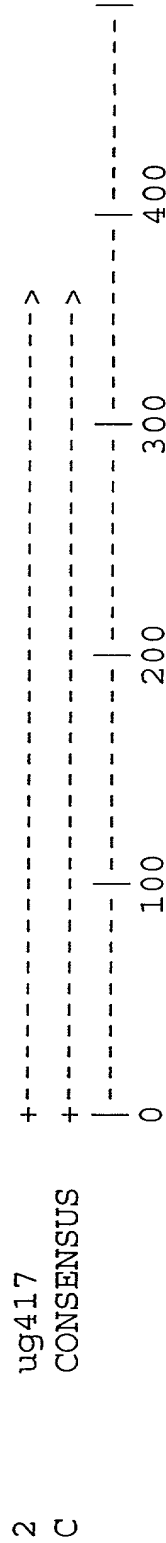
Contig: ug415



Contig: ug416



Contig: ug417



Contig: ug418

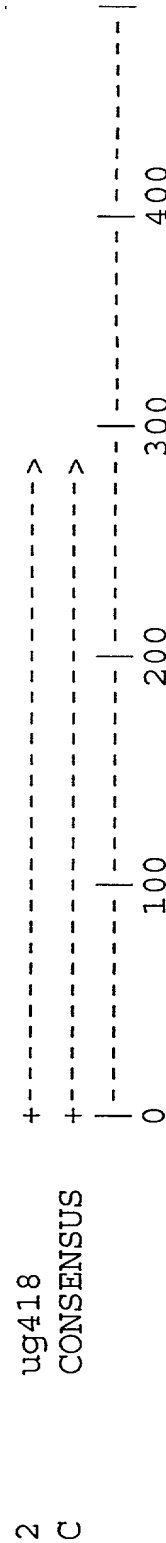
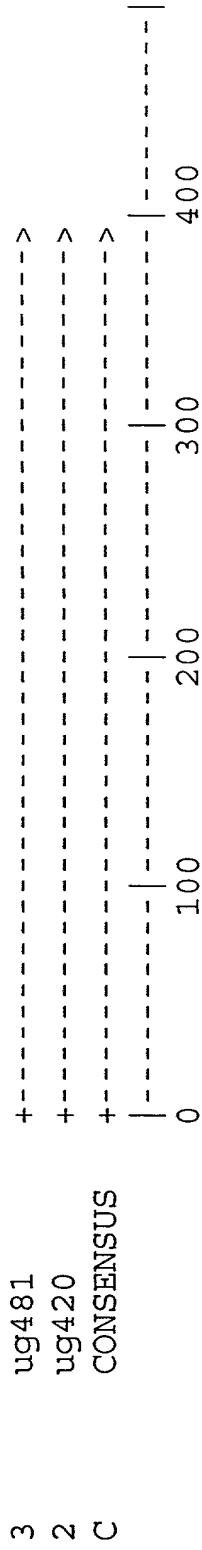


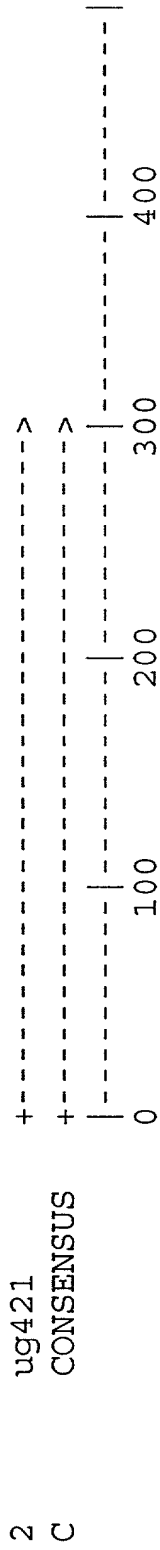
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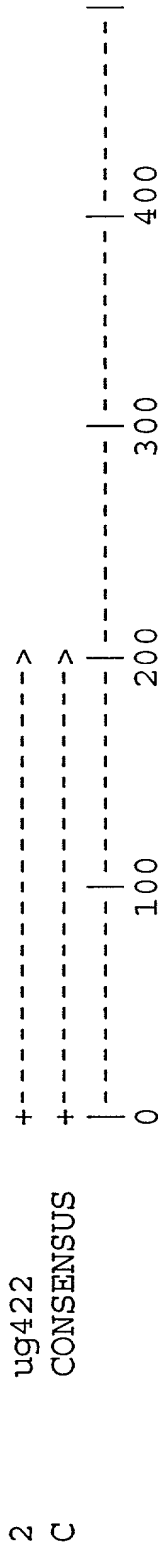
Contig: ug420



Contig: ug421



Contig: ug422



Contig: ug423

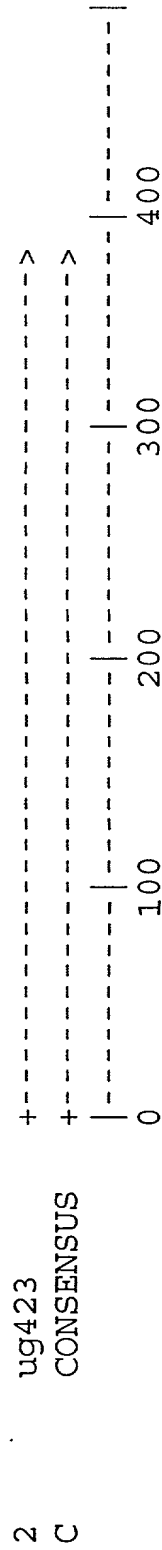
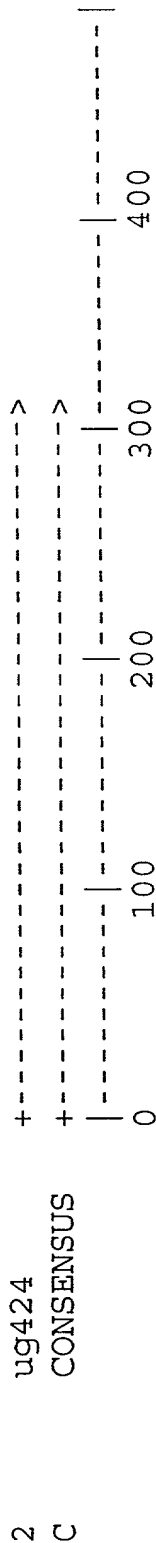


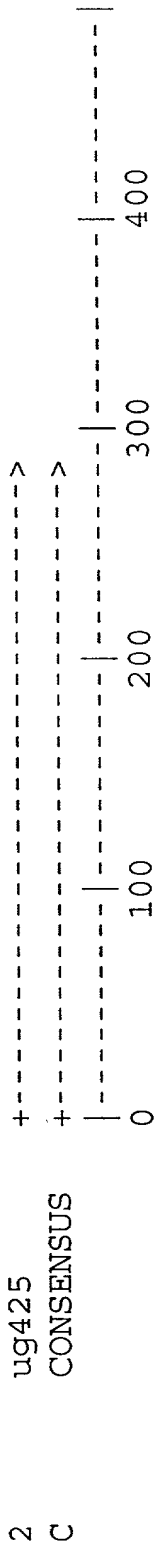
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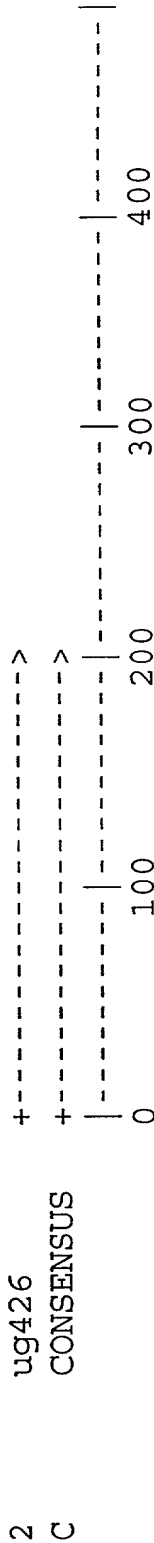
Contig: ug424



Contig: ug425



Contig: ug426



Contig: ug427

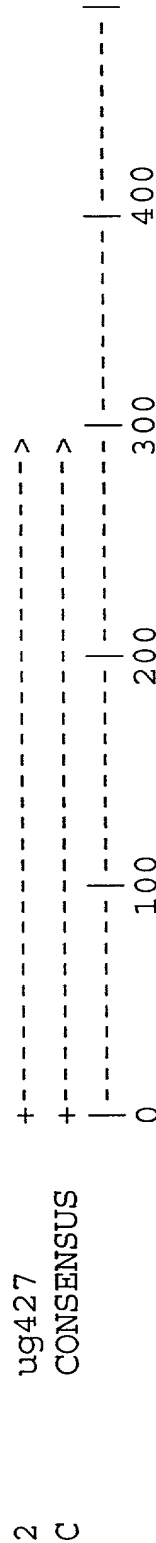
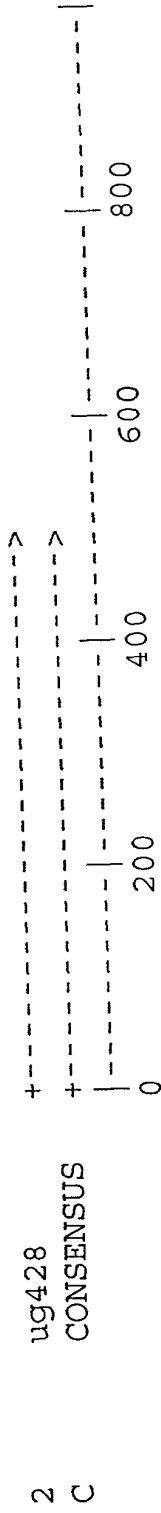


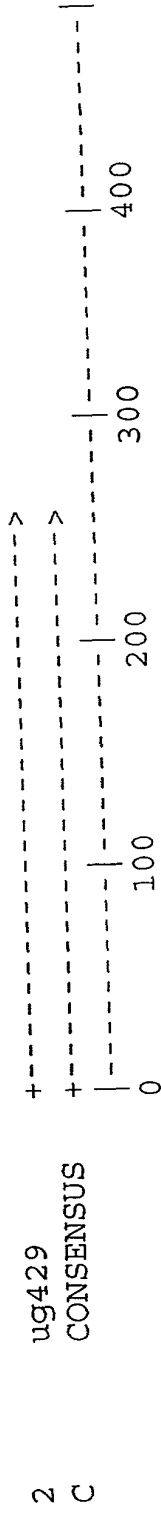
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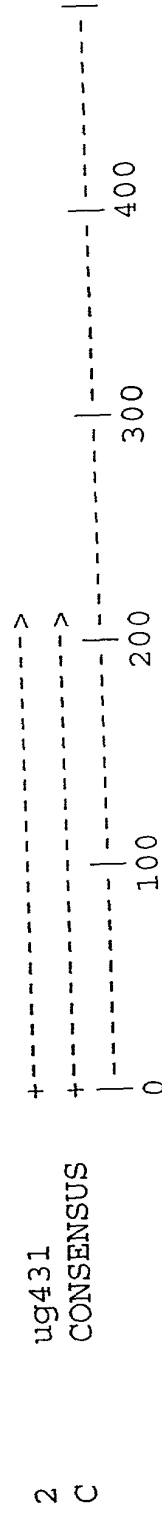
Contig: ug428



Contig: ug429



Contig: ug431



Contig: ug432

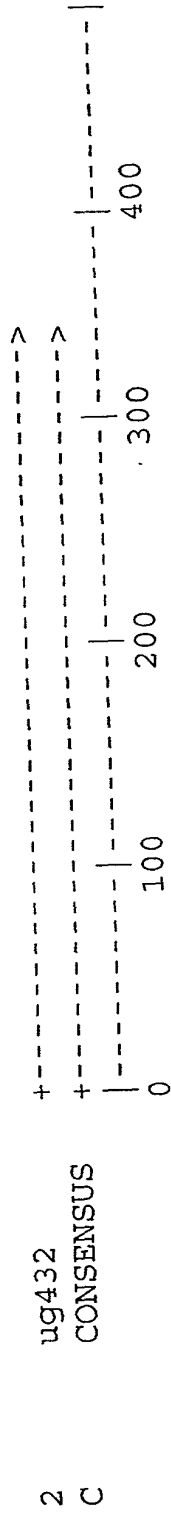
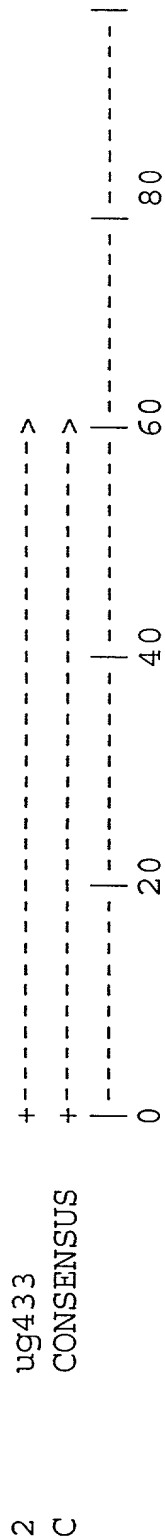


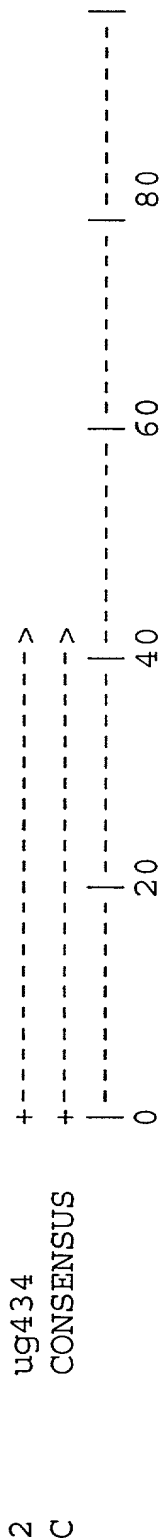
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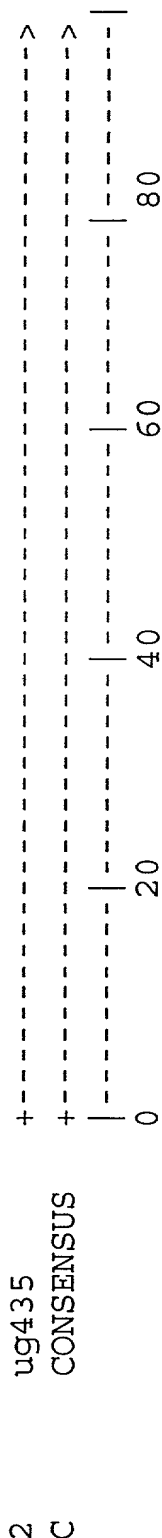
Contig: ug433



Contig: ug434



Contig: ug435



Contig: ug436

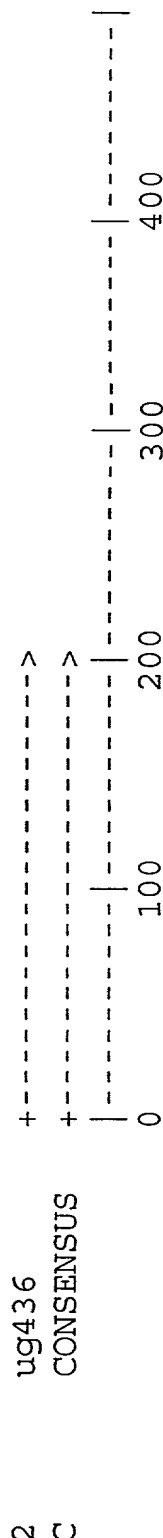
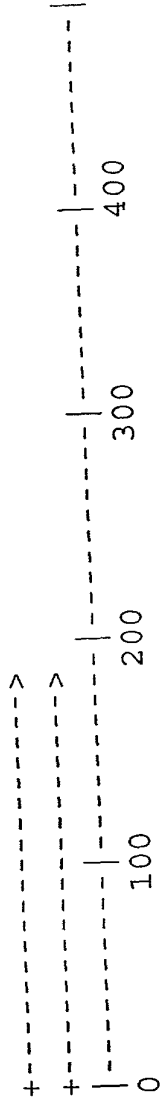


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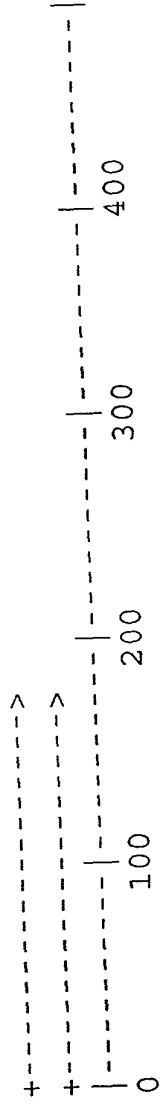
Contig: ug437

2 ug437
 C CONSENSUS



Contig: ug439

2 ug439
 C CONSENSUS



Contig: ug440rs

2 ug440rs
 C CONSENSUS



Contig: ug441

3 ug441ors
 2 ug441
 C CONSENSUS

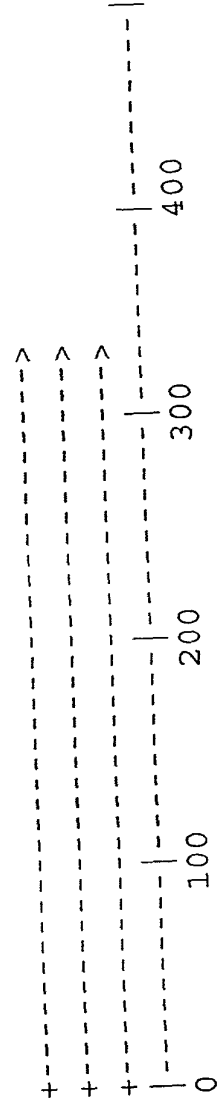
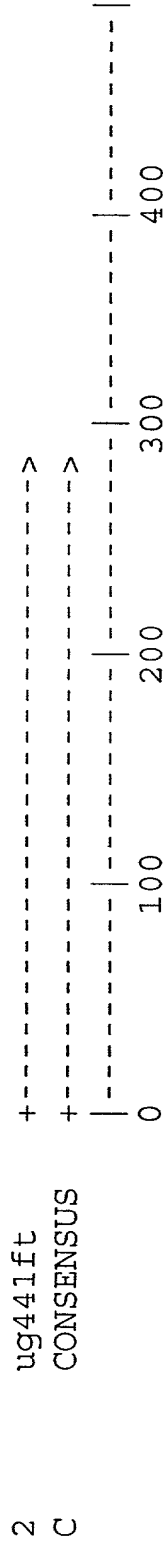


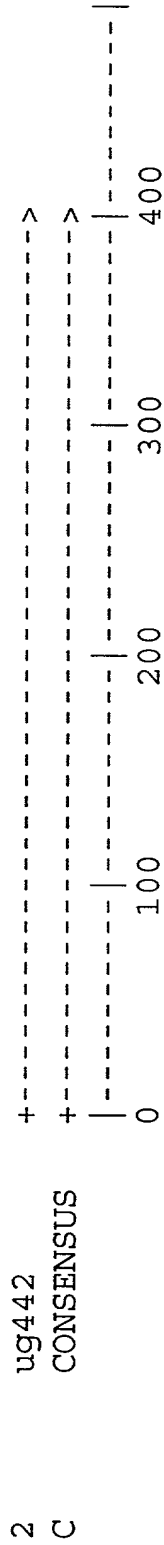
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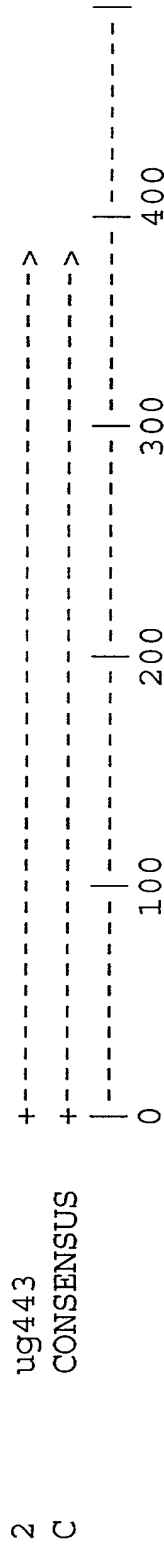
Contig: ug441ft



Contig: ug442



Contig: ug443



Contig: ug445

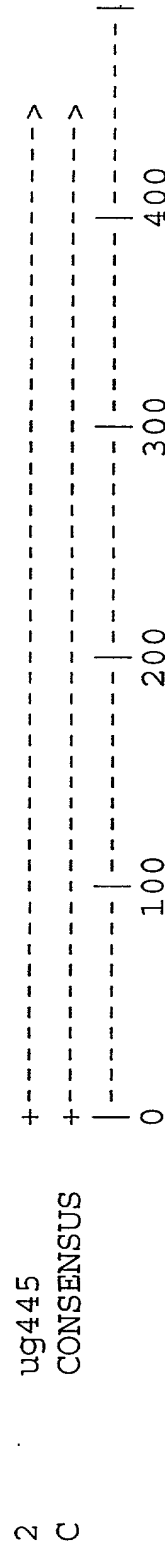
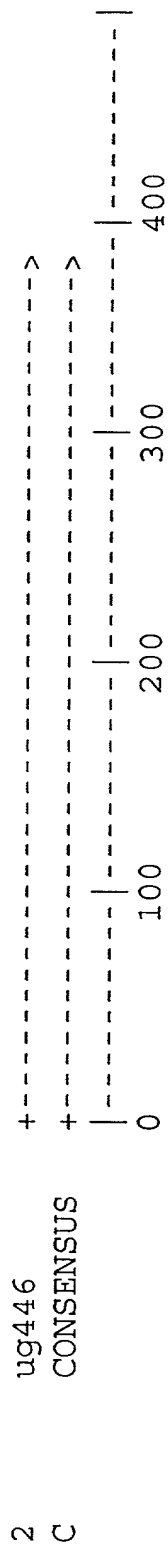


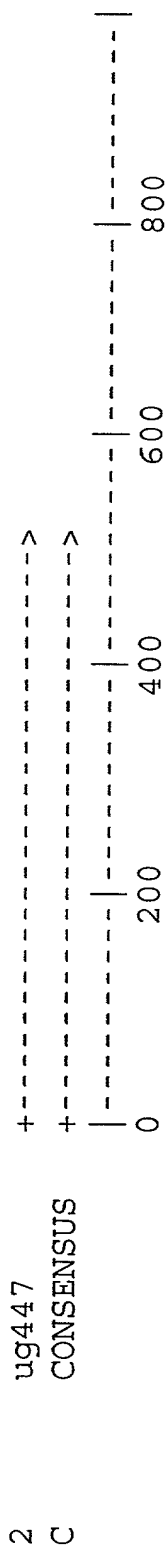
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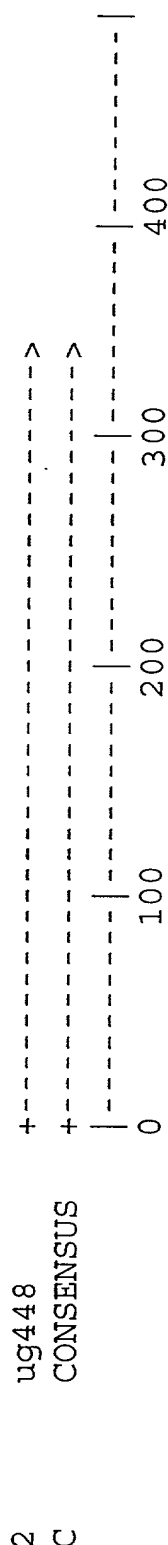
Contig: ug446



Contig: ug447



Contig: ug448



Contig: ug450

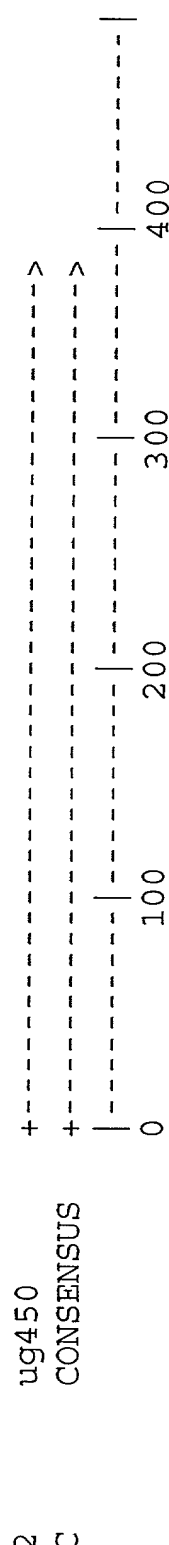
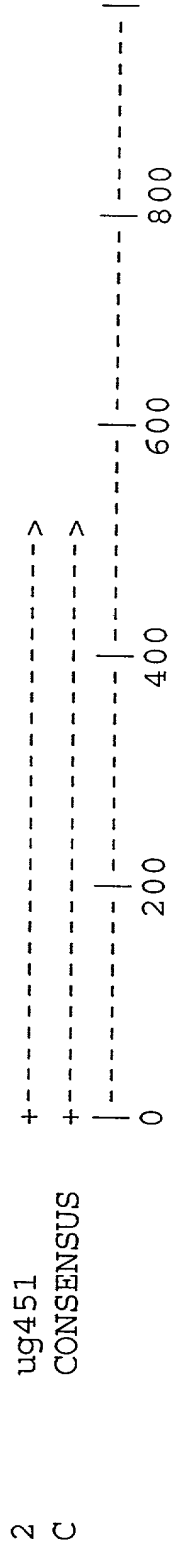


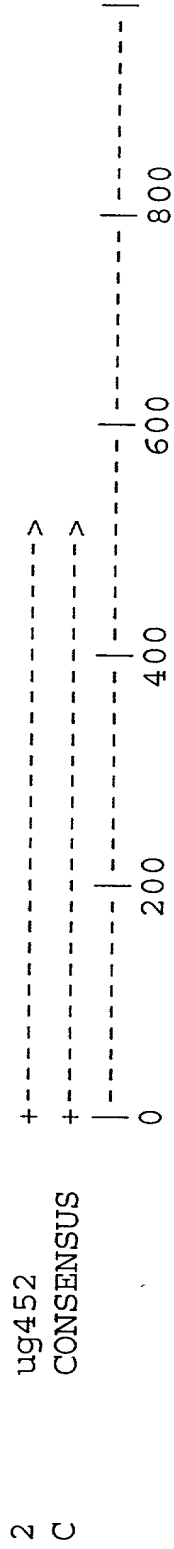
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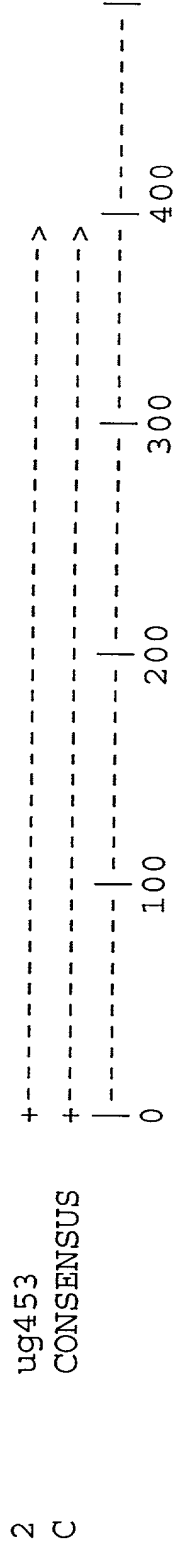
Contig: ug451



Contig: ug452



Contig: ug453



Contig: ug454

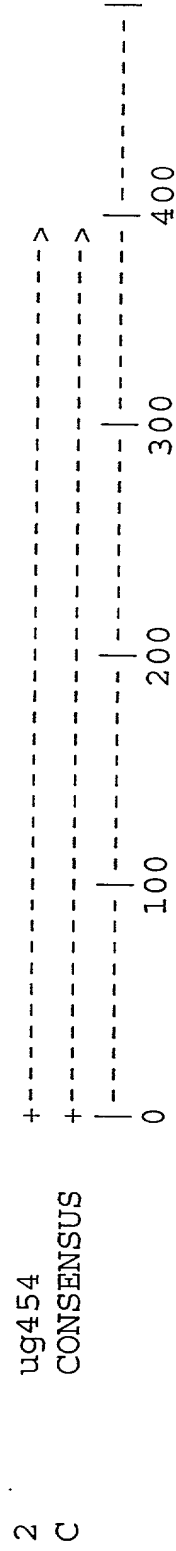
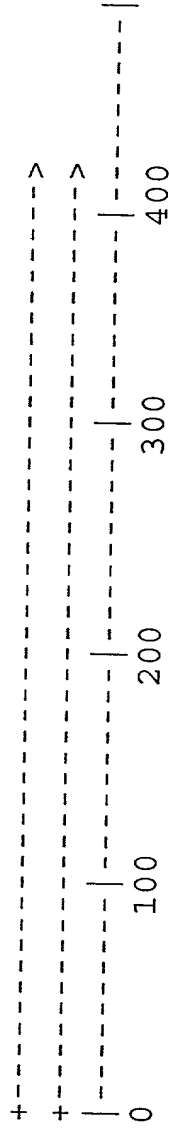


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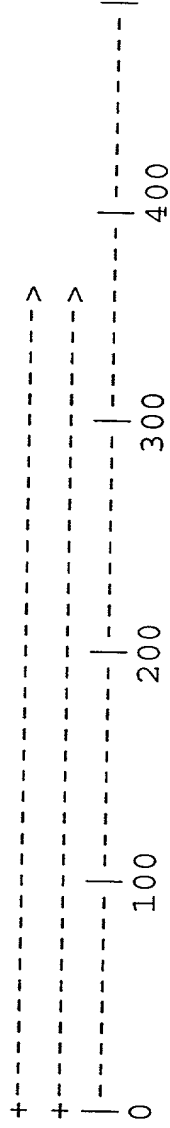
Contig: ug455

2 ug455
C CONSENSUS



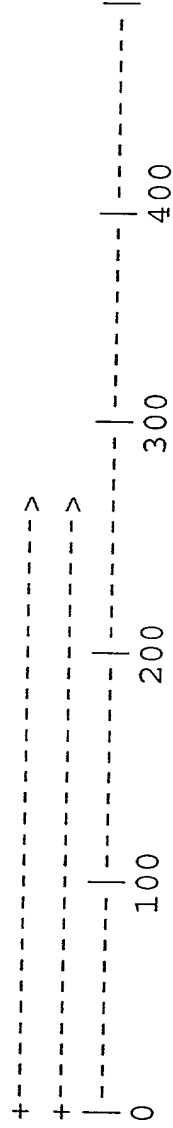
Contig: ug456

2 ug456
C CONSENSUS



Contig: ug457

2 ug457
C CONSENSUS



Contig: ug458

2 ug458
C CONSENSUS

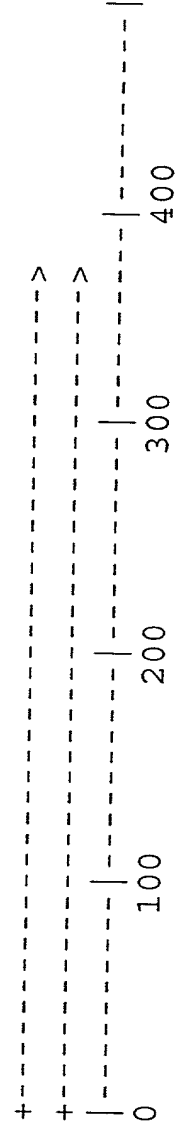
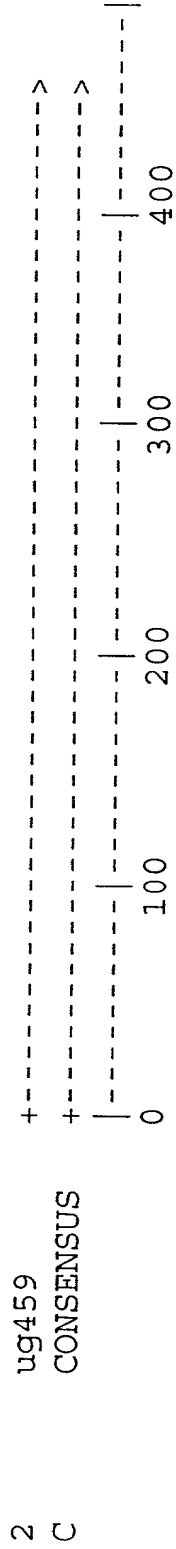


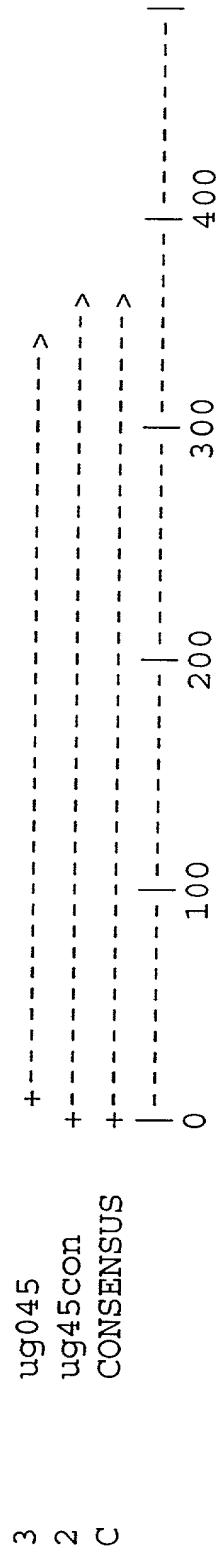
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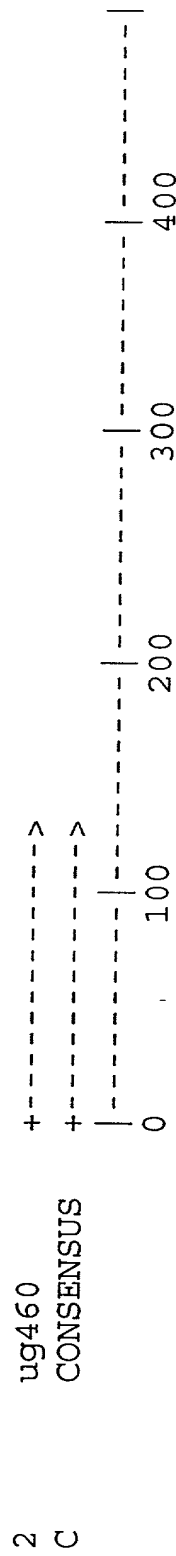
Contig: ug459



Contig: ug45con



Contig: ug460



Contig: ug461

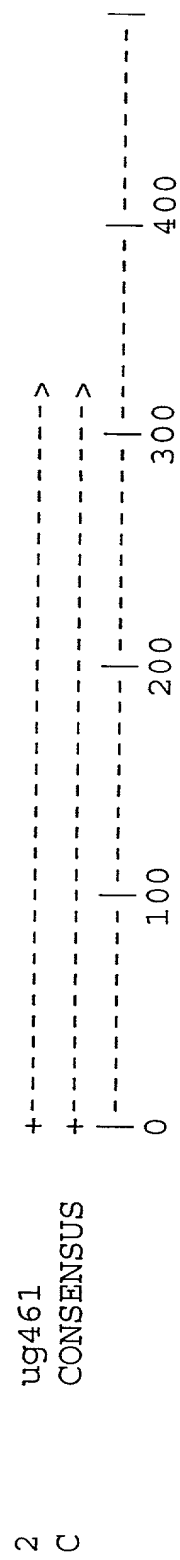
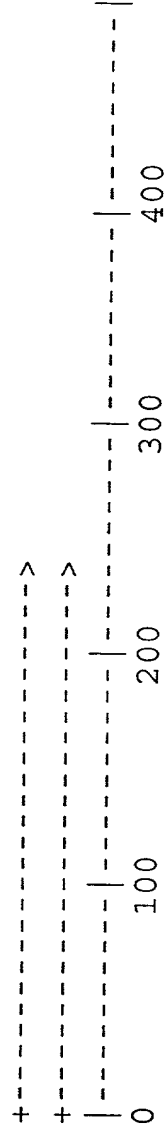


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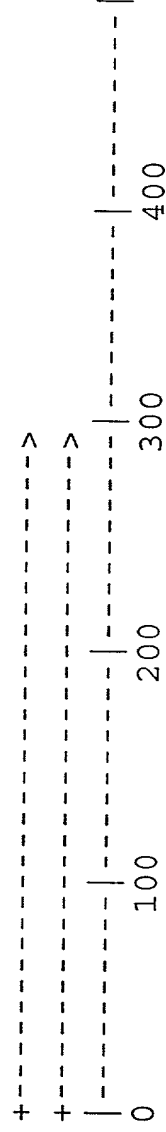
Contig: ug462

2 ug462
 C CONSENSUS



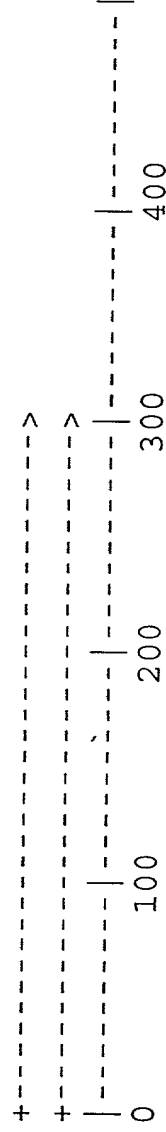
Contig: ug463

2 ug463
 C CONSENSUS



Contig: ug464

2 ug464
 C CONSENSUS



Contig: ug465

2 ug465
 C CONSENSUS

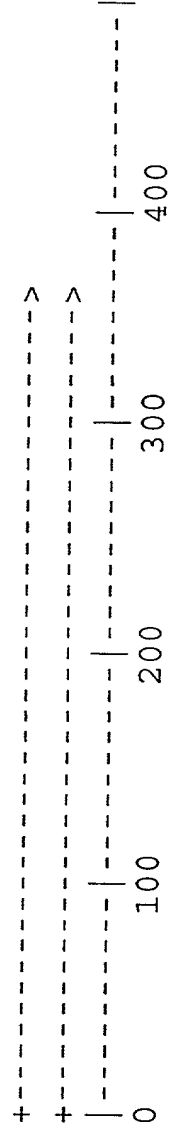
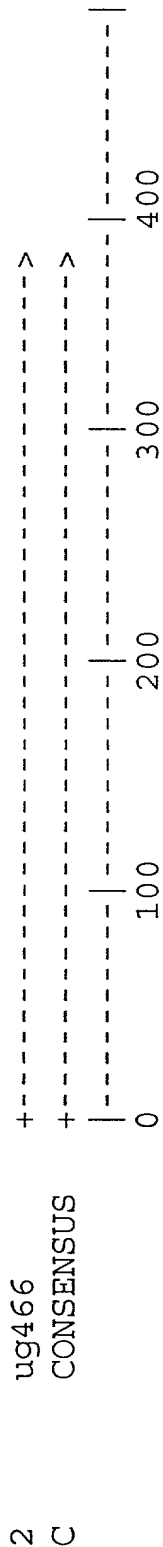


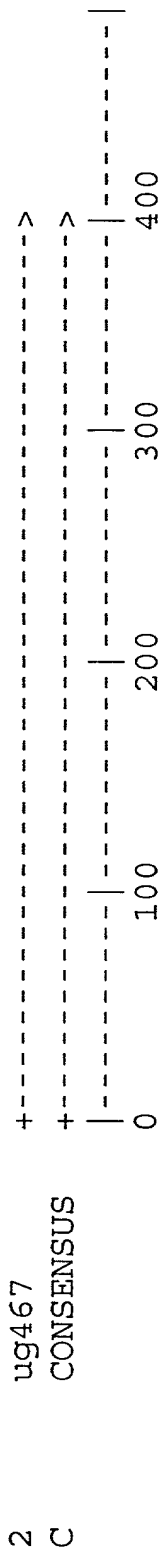
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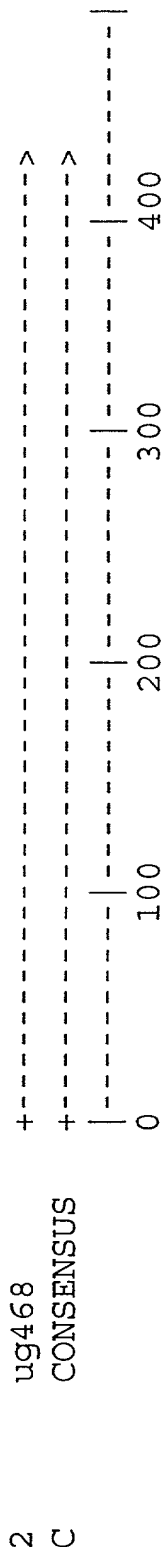
Contig: ug466



Contig: ug467



Contig: ug468



Contig: ug470

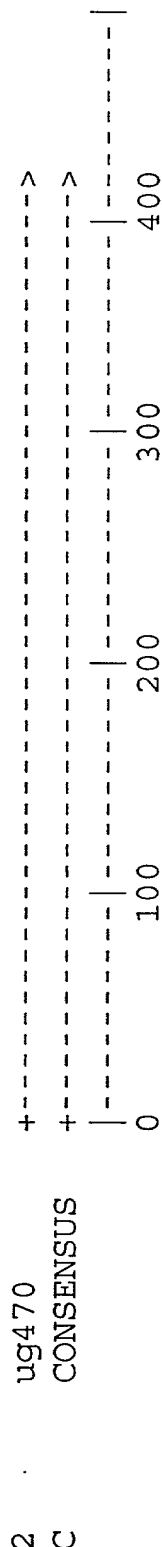
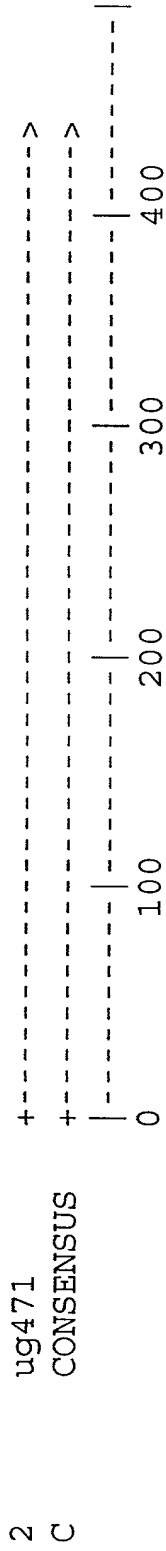


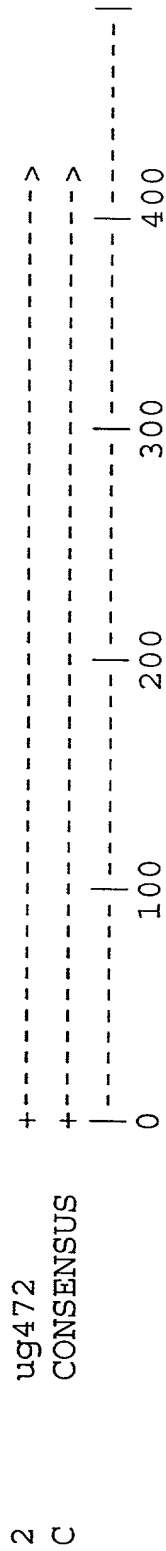
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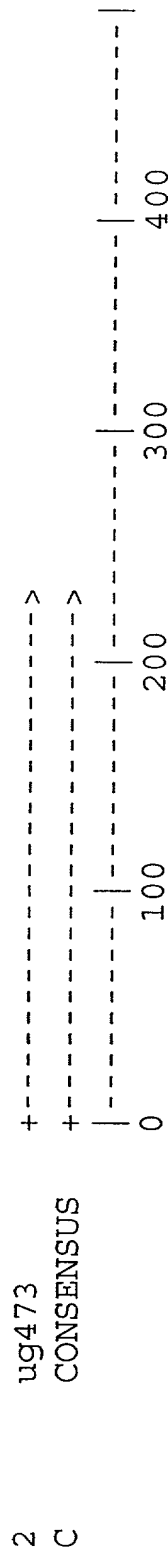
Contig: ug471



Contig: ug472



Contig: ug473



Contig: ug475

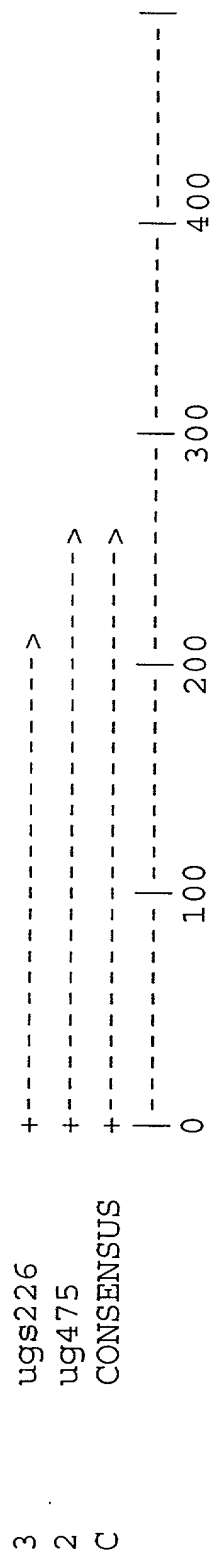
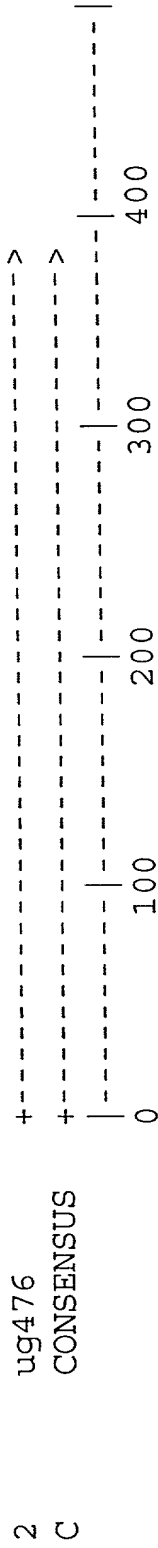


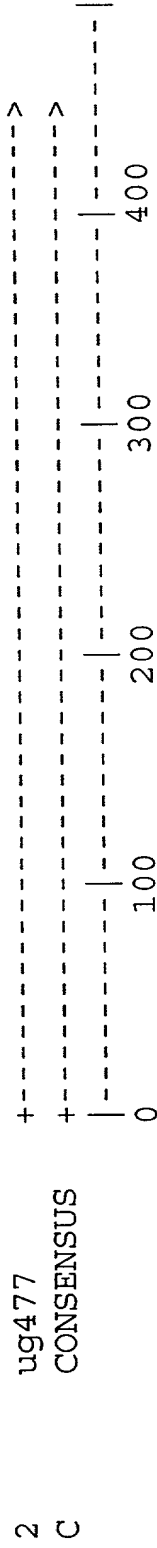
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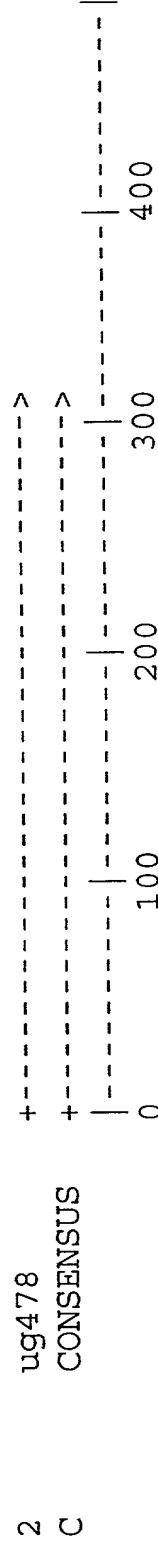
Contig: ug476



Contig: ug477



Contig: ug478



Contig: ug479

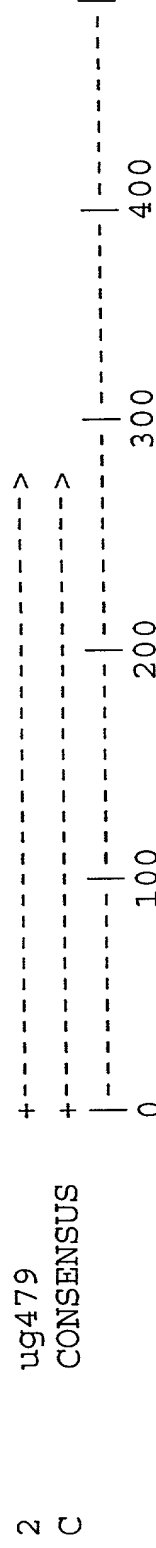
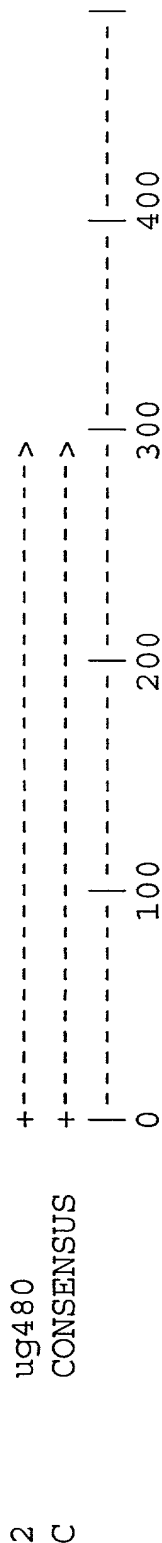


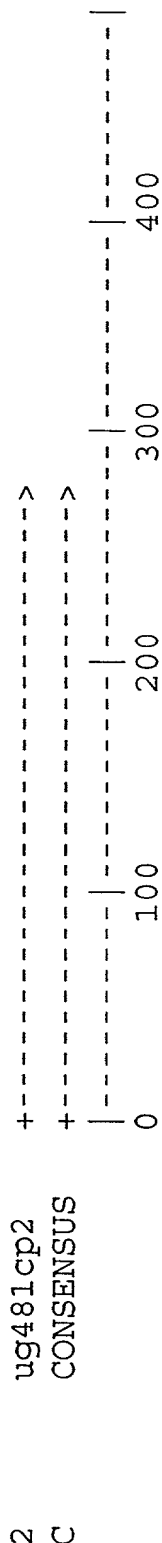
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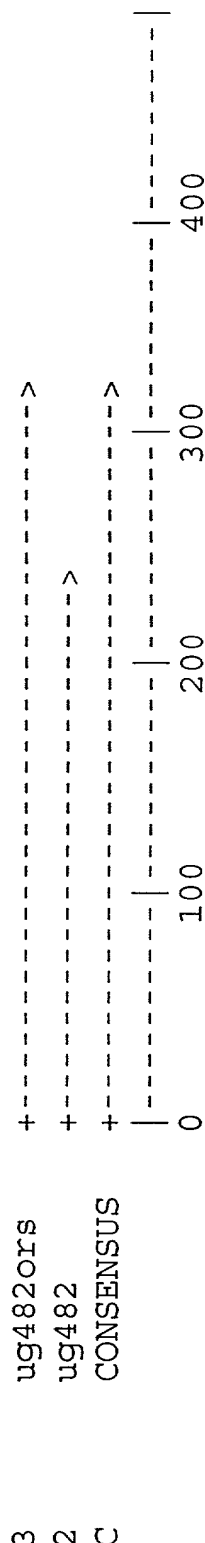
Contig: ug480



Contig: ug481cp2



Contig: ug482



Contig: ug482ft

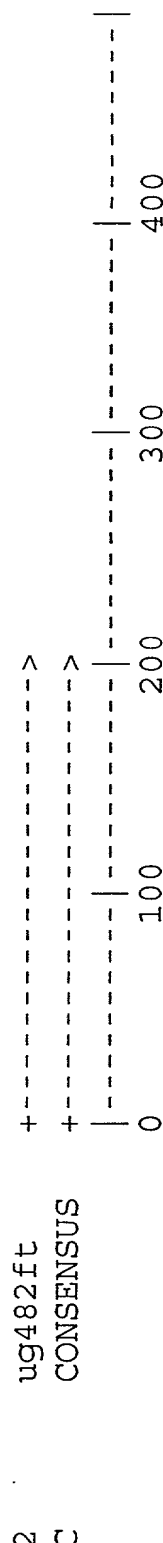
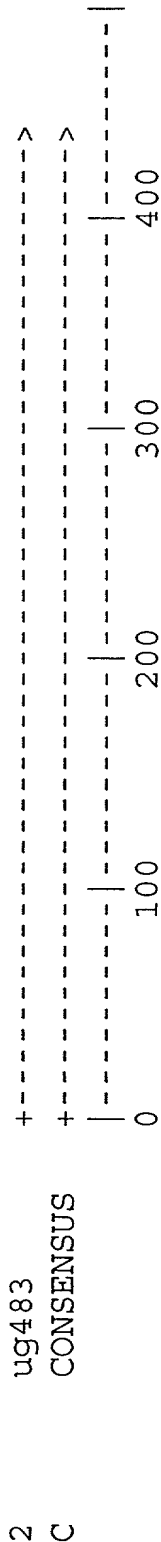


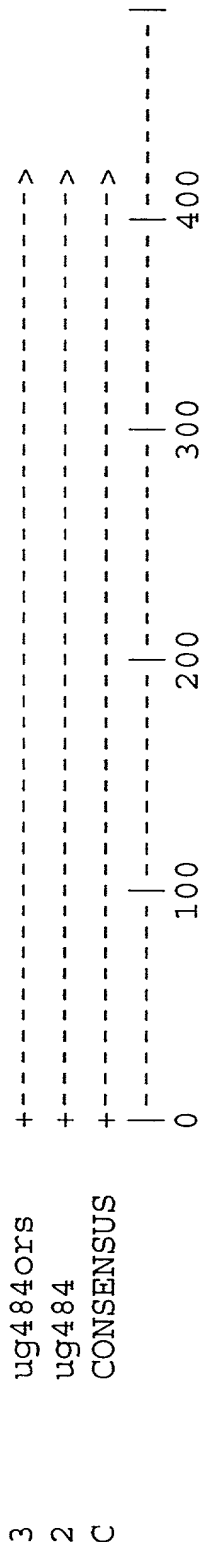
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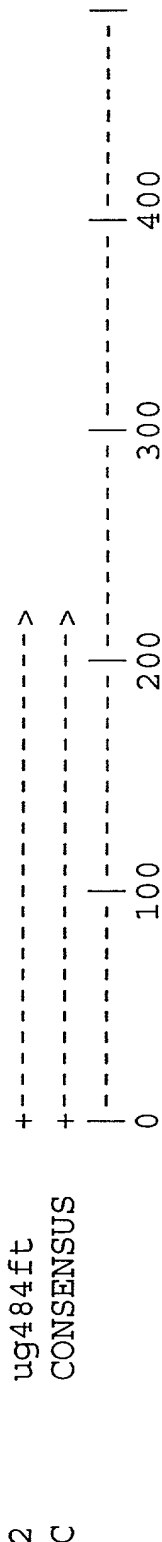
Contig: ug483



Contig: ug484



Contig: ug484ft



Contig: ug485t

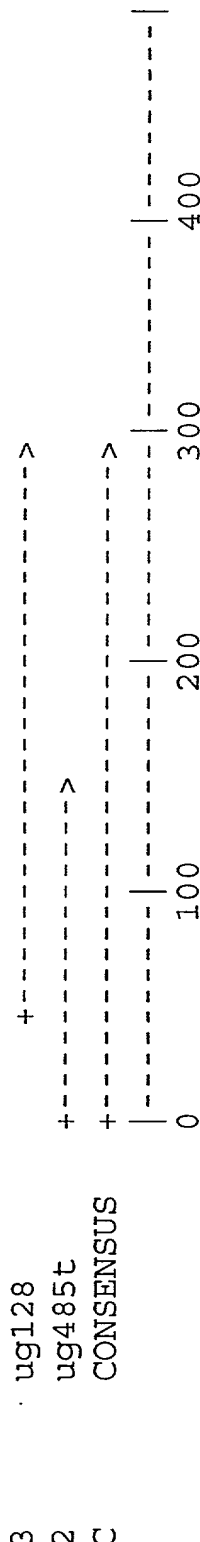
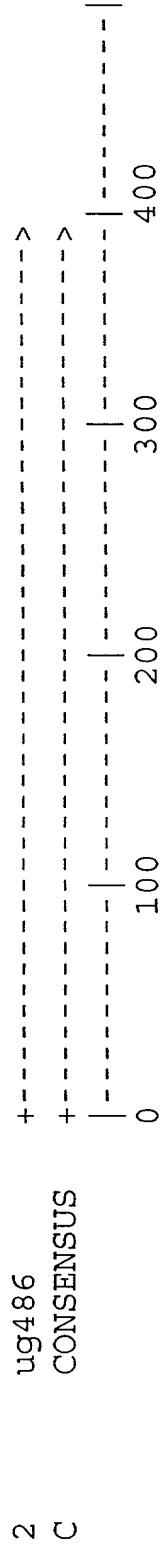


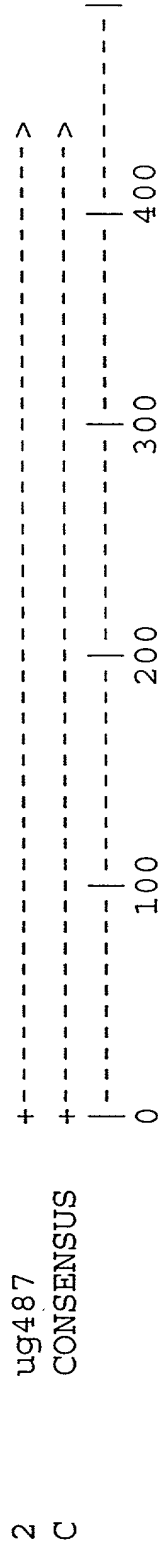
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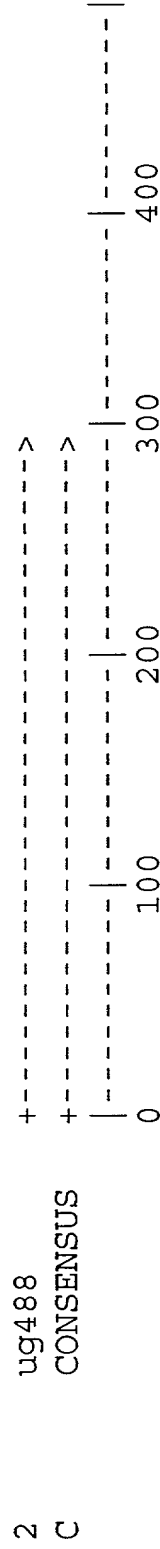
Contig: ug486



Contig: ug487



Contig: ug488



Contig: ug489

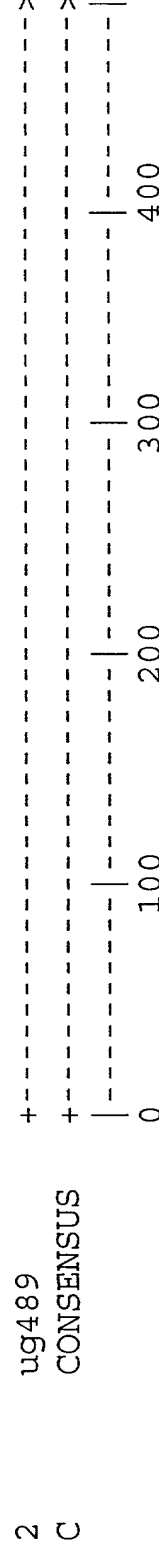
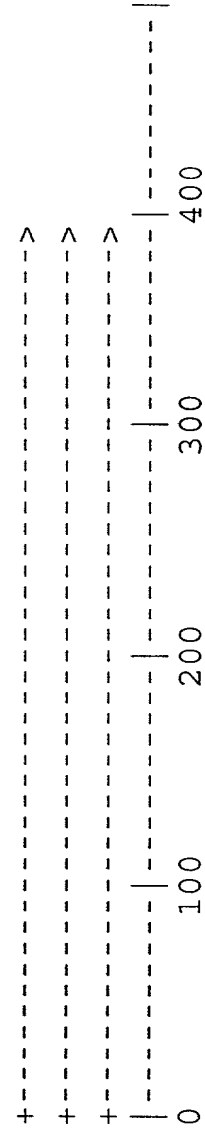


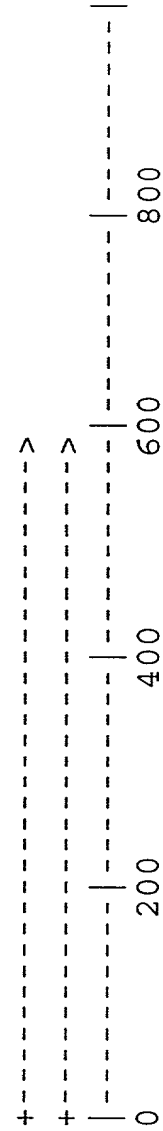
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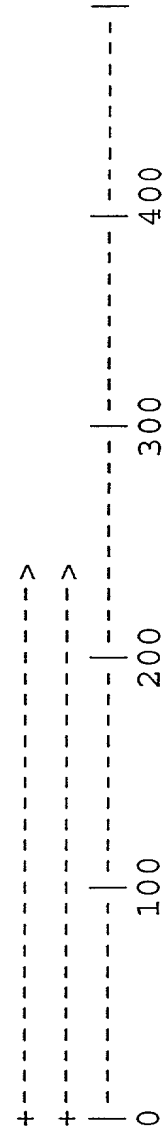
Contig: ug491



Contig: ug491ft



Contig: ug492



Contig: ug493

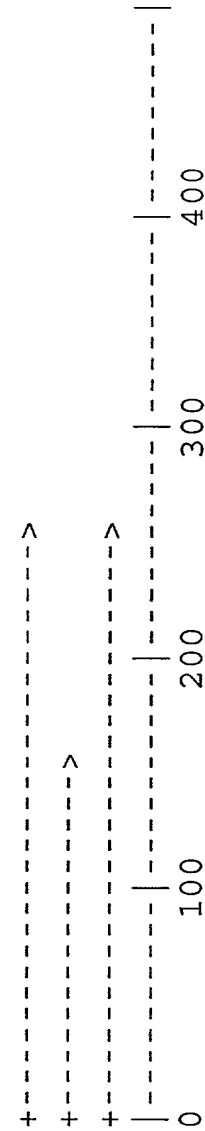
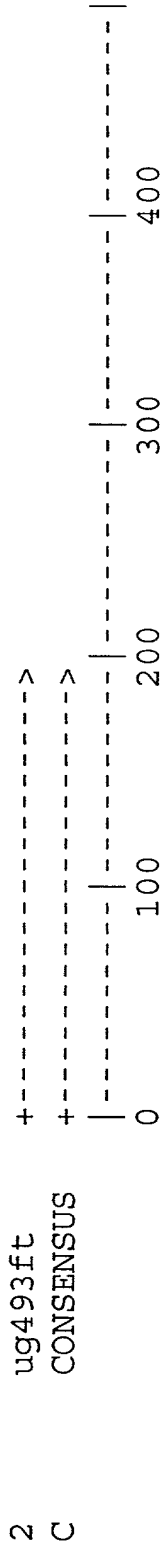


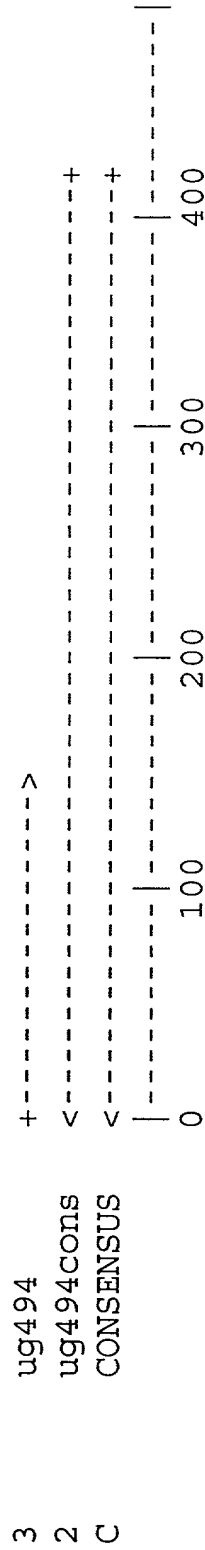
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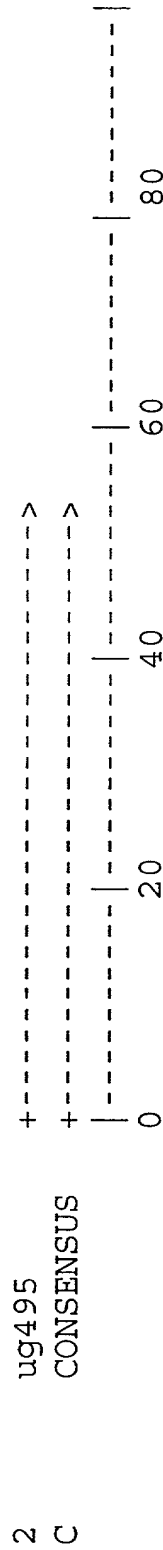
Contig: ug493ft



Contig: ug494cons



Contig: ug495



Contig: ug496

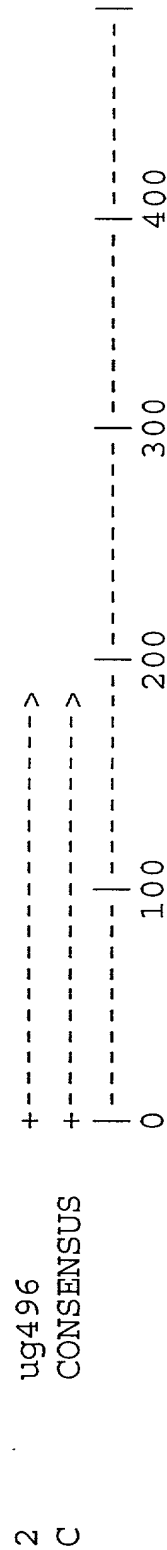
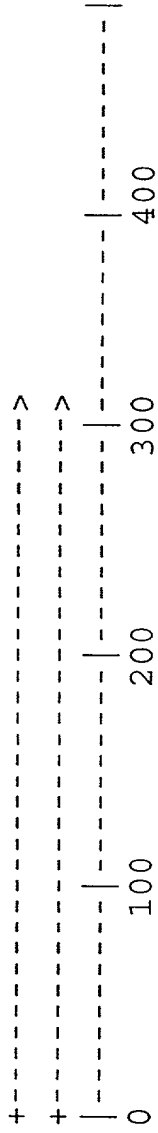


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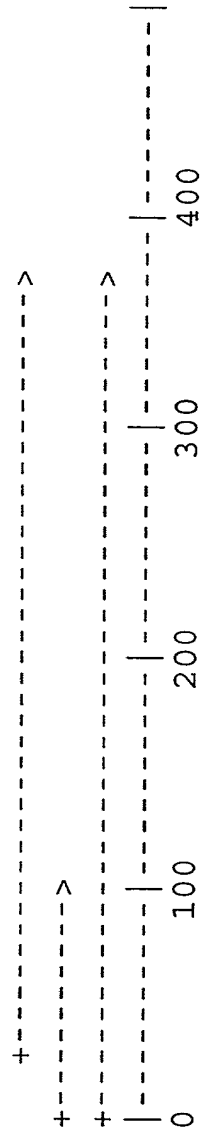
Contig: ug497

2 ug497
C CONSENSUS



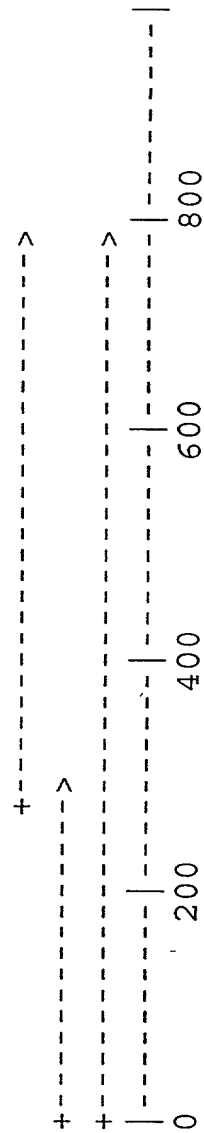
Contig: ug499

3 ug449
2 ug499
C CONSENSUS



Contig: ug500

3 ug208
2 ug500
C CONSENSUS



Contig: ug501

2 ug501
C CONSENSUS

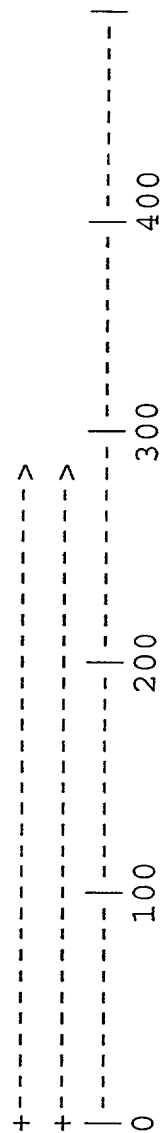
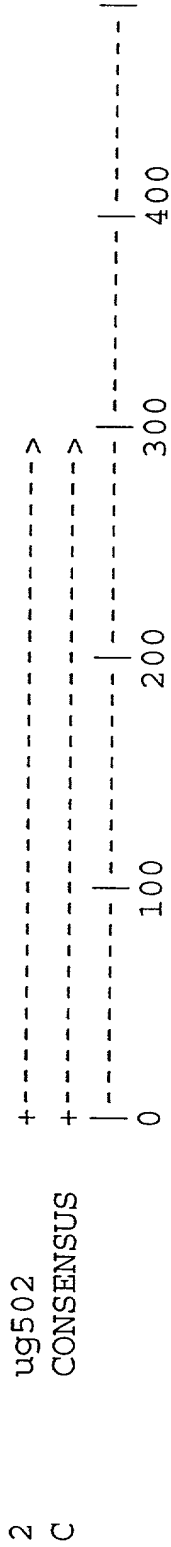


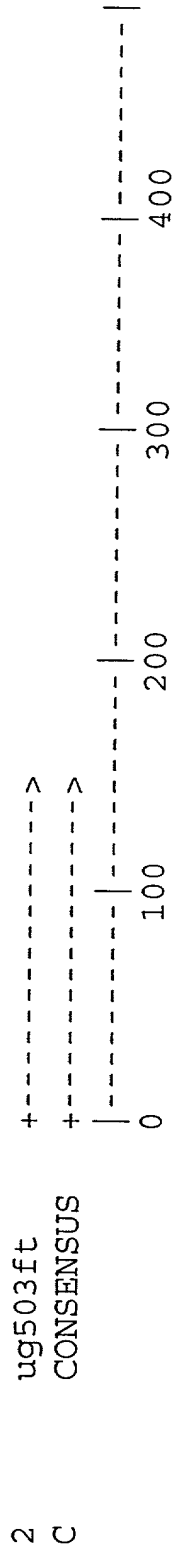
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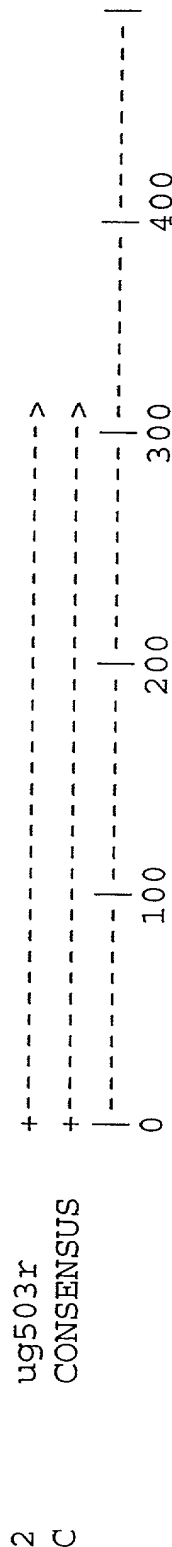
Contig: ug502



Contig: ug503ft



Contig: ug503r



Contig: ug503s

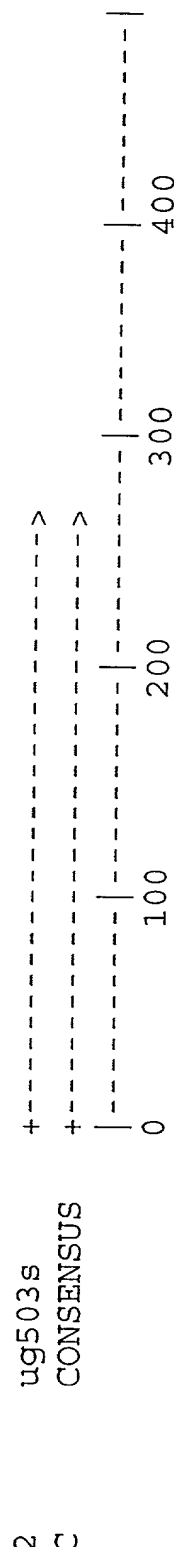
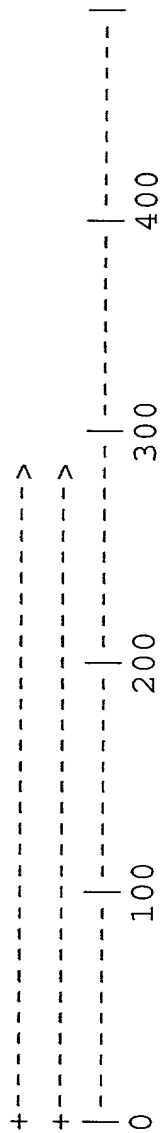


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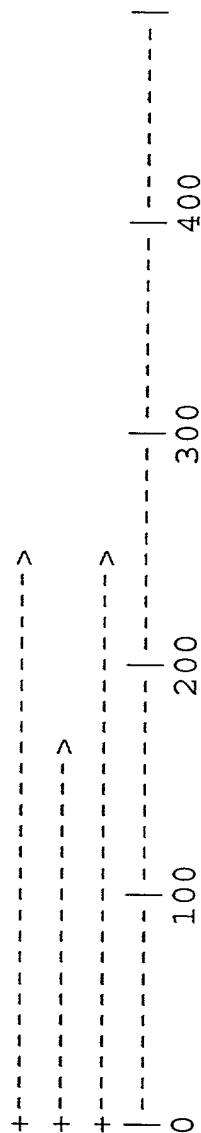
Contig: ug504

2 ug504
 C CONSENSUS



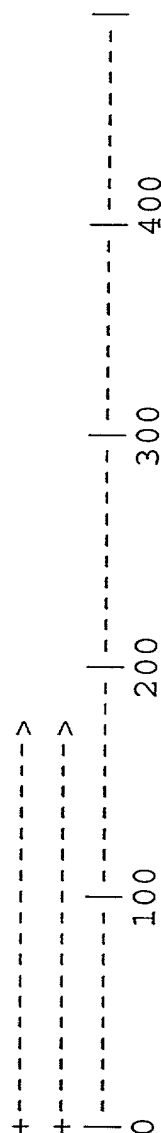
Contig: ug505

3 ug505ors
 2 ug505
 C CONSENSUS



Contig: ug505ft

2 ug505ft
 C CONSENSUS



Contig: ug506

3 ug506or
 2 ug506
 C CONSENSUS

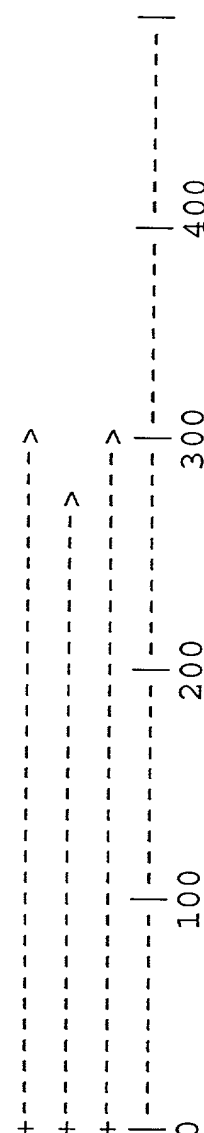
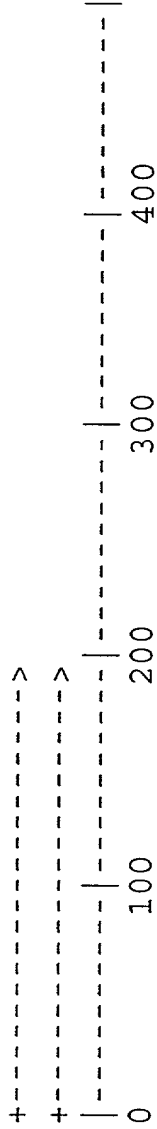


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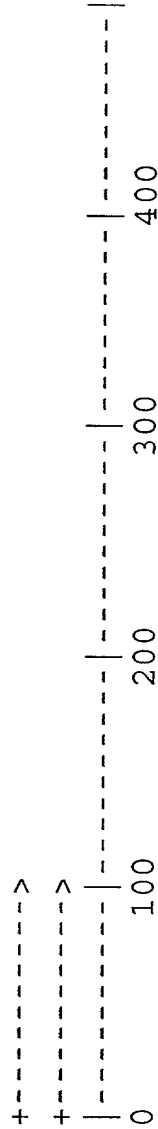
Contig: ug506ft

2 ug506ft
C CONSENSUS



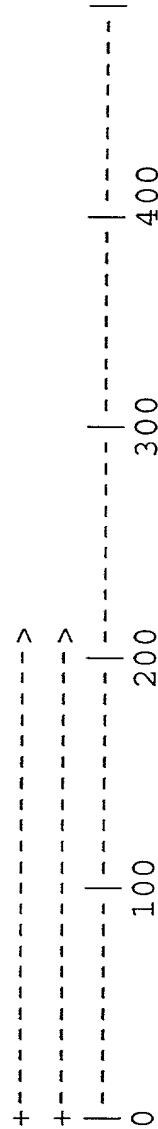
Contig: ug507

2 ug507
C CONSENSUS



Contig: ug508

2 ug508
C CONSENSUS



Contig: ug509

3 ugs036
2 ug509
C CONSENSUS

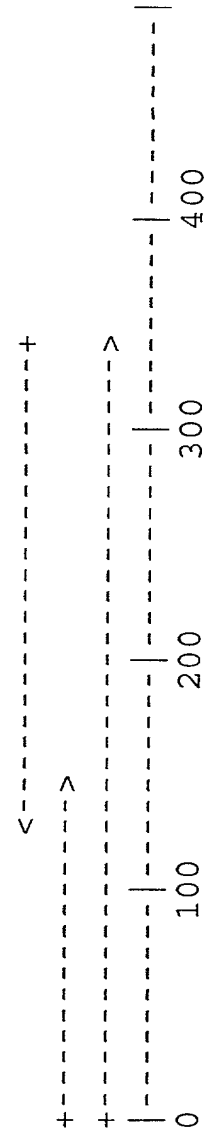
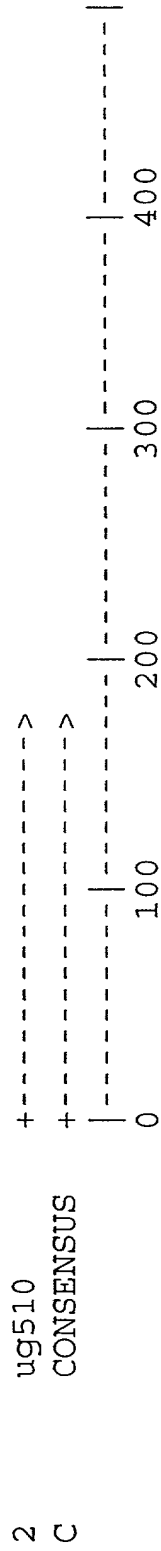


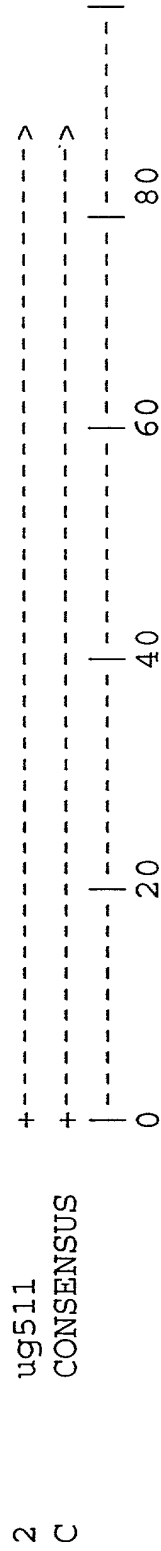
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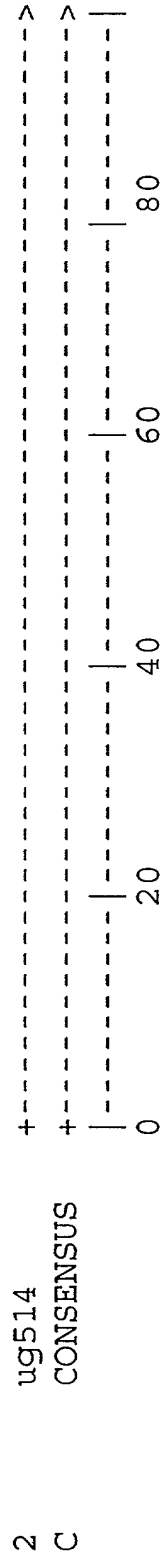
Contig: ug510



Contig: ug511



Contig: ug514



Contig: ug516

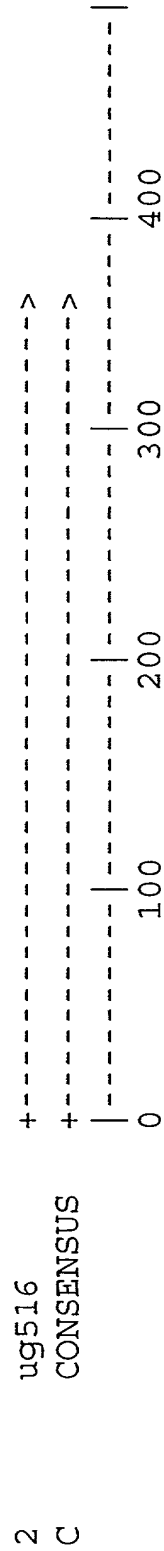
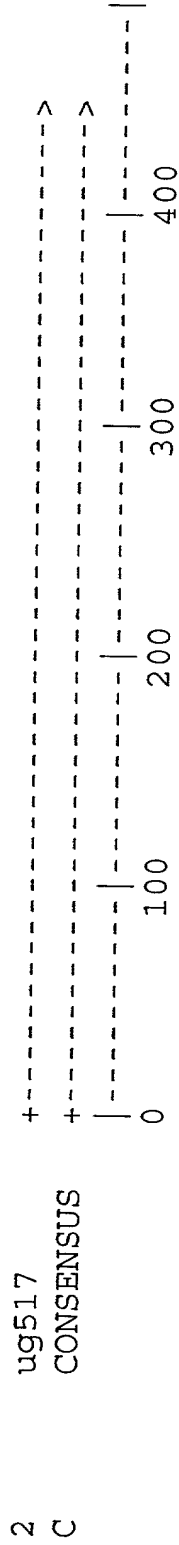


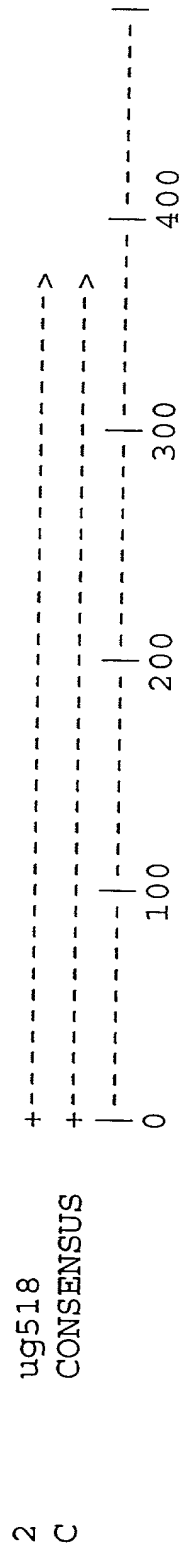
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400/472

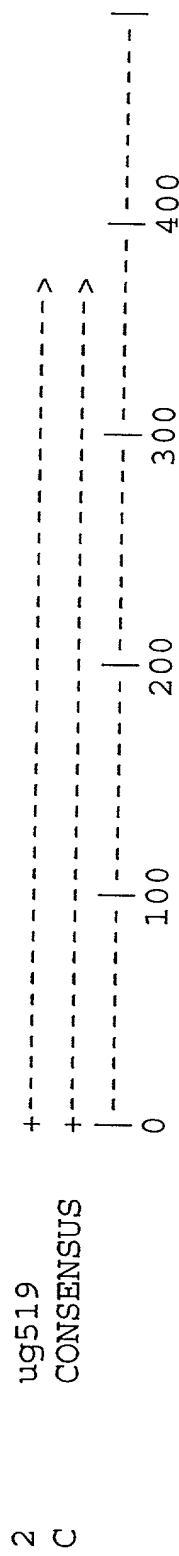
Contig: ug517



Contig: ug518



Contig: ug519



Contig: ug520

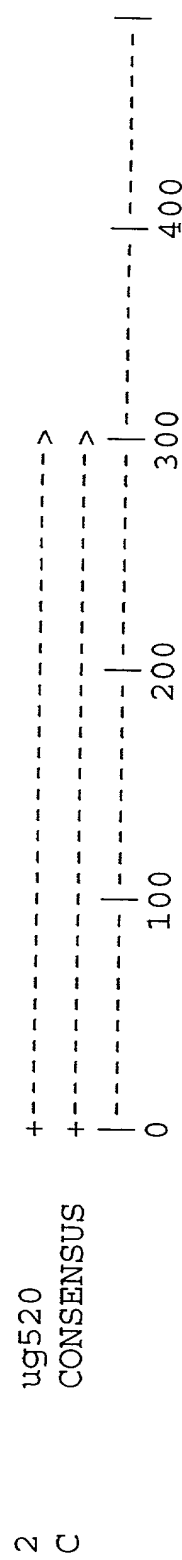
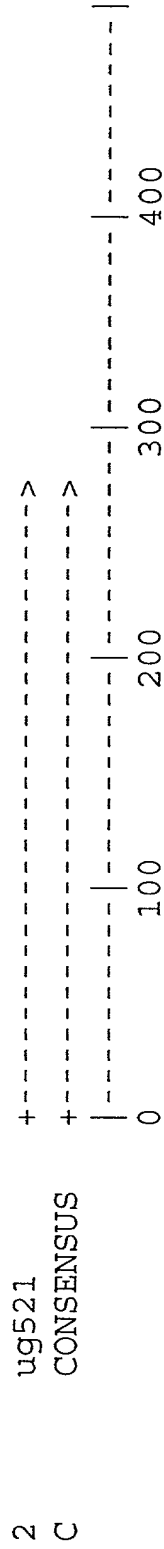


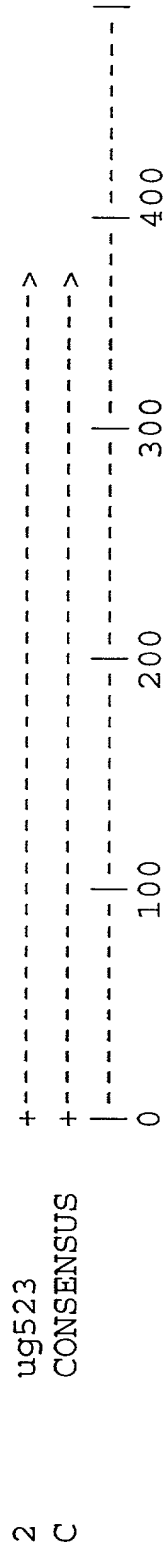
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401/472

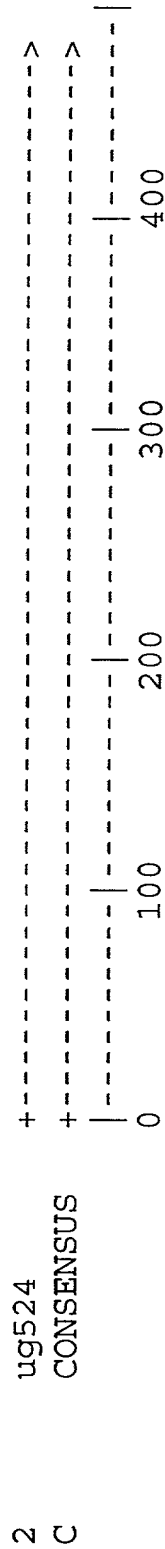
Contig: ug521



Contig: ug523



Contig: ug524



Contig: ug525

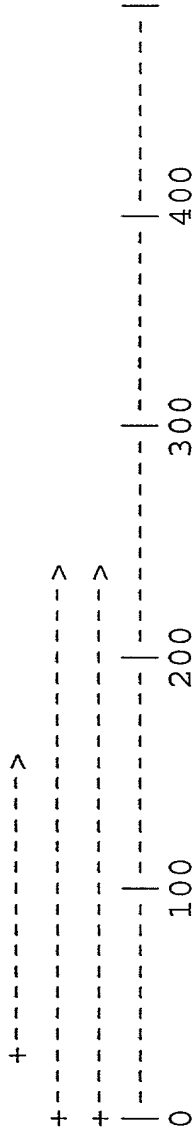


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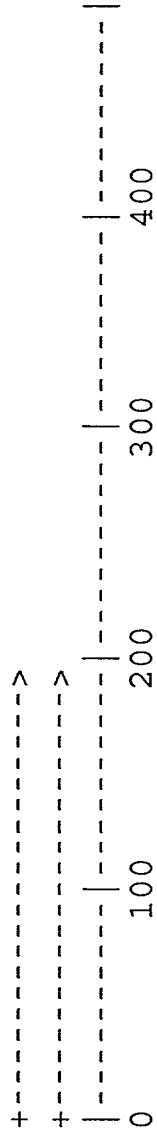
Contig: ugs001

3 ugs013
 2 ugs001
 C CONSENSUS



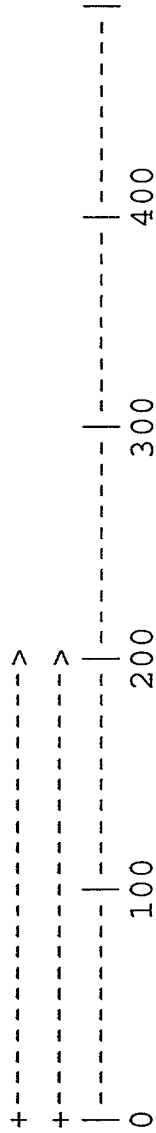
Contig: ugs003

2 ugs003
 C CONSENSUS



Contig: ugs005

2 ugs005
 C CONSENSUS



Contig: ugs006

2 ugs006
 C CONSENSUS

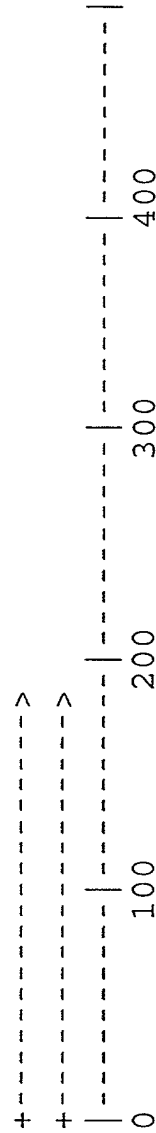
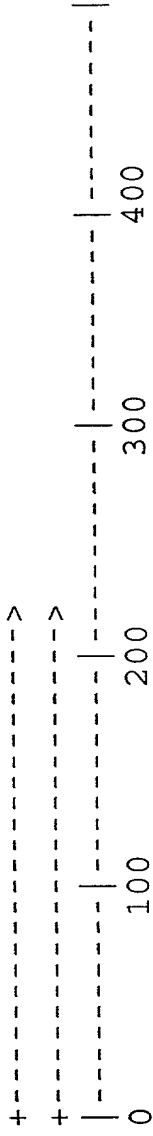


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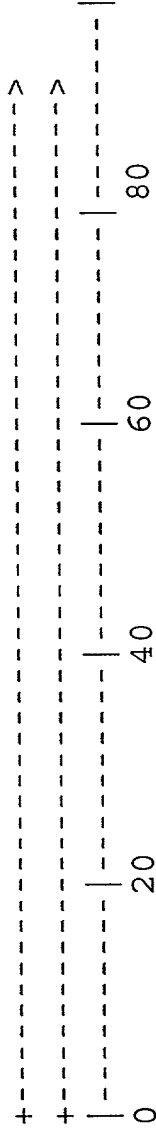
Contig: ugs007

2 ugs007
C CONSENSUS



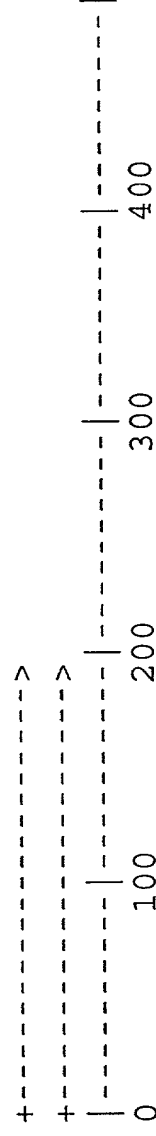
Contig: ugs008

2 ugs008
C CONSENSUS



Contig: ugs009

2 ugs009
C CONSENSUS



Contig: ugs010

2 ugs010
C CONSENSUS

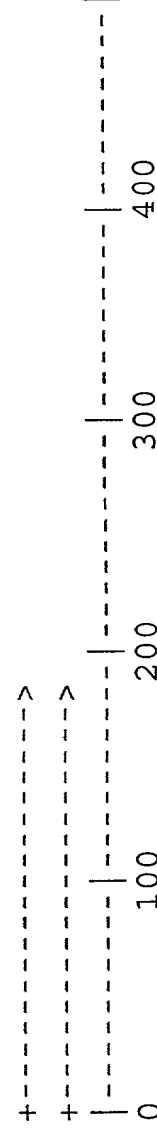
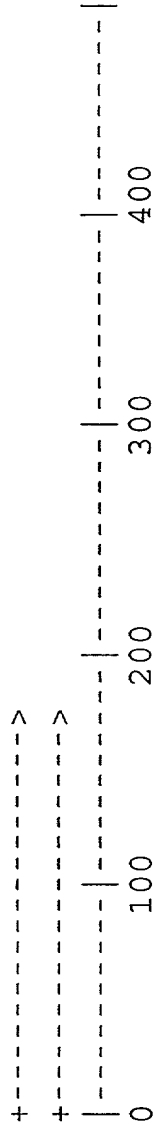


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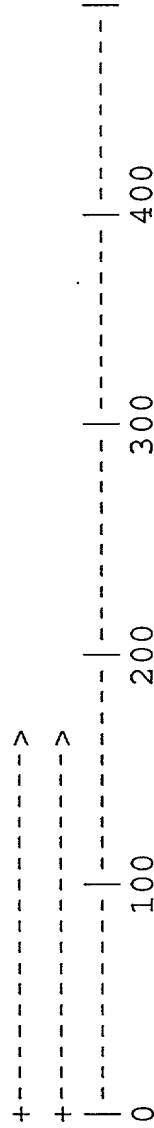
Contig: ugs011

2 ugs011
C CONSENSUS



Contig: ugs012

2 ugs012
C CONSENSUS



Contig: ugs014

2 ugs014
C CONSENSUS



Contig: ugs016

2 ugs016
C CONSENSUS

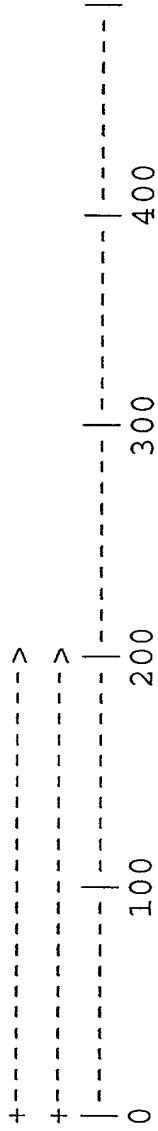


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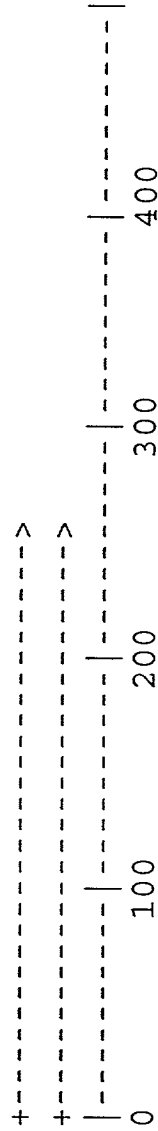
Contig: ugs017

2 ugs017
C CONSENSUS



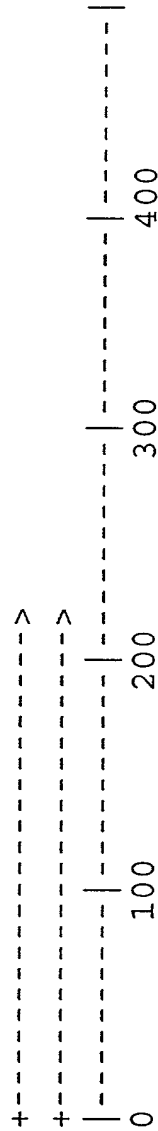
Contig: ugs018

2 ugs018
C CONSENSUS



Contig: ugs019

2 ugs019
C CONSENSUS



Contig: ugs020

2 ugs020
C CONSENSUS

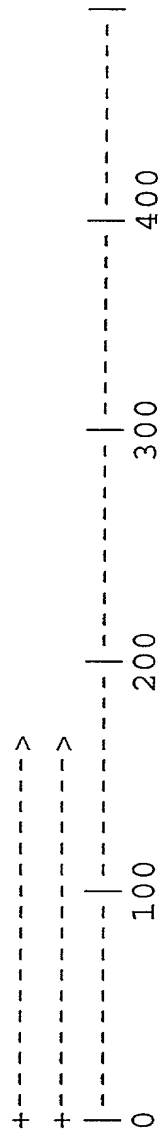
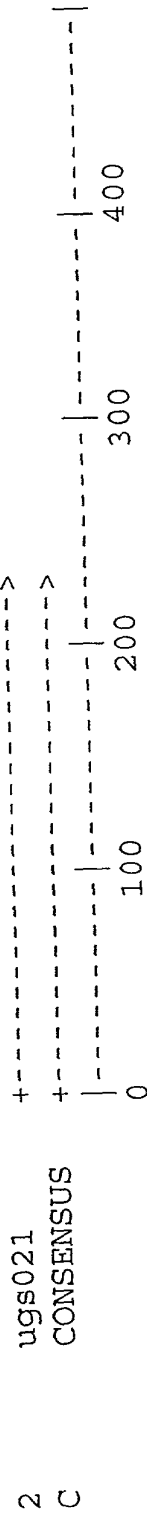


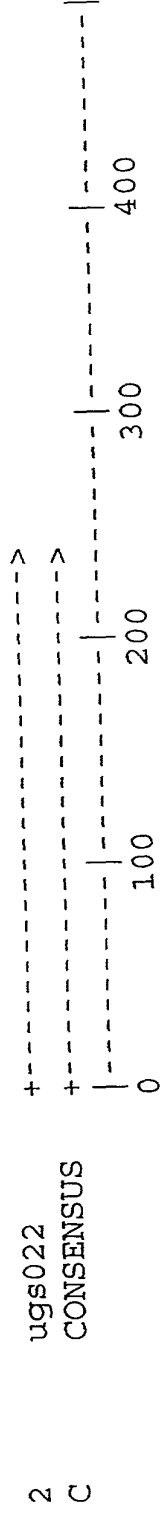
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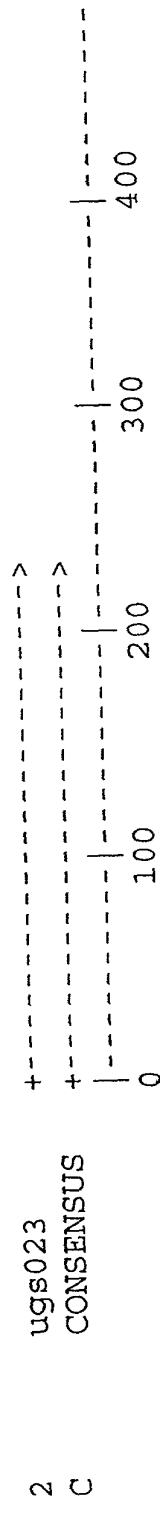
Contig: ugs021



Contig: ugs022



Contig: ugs023



Contig: ugs024

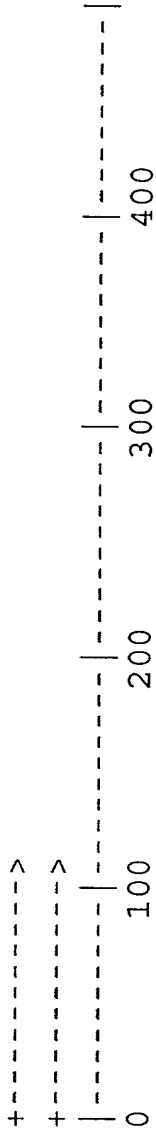


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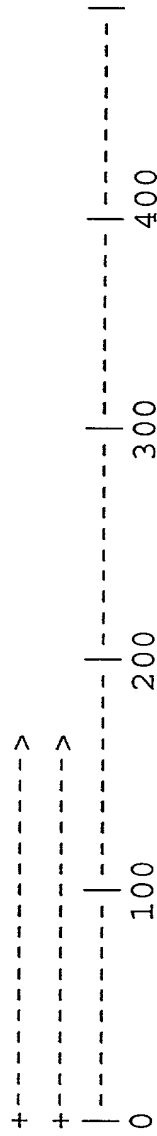
Contig: ugs025

2 ugs025
C CONSENSUS



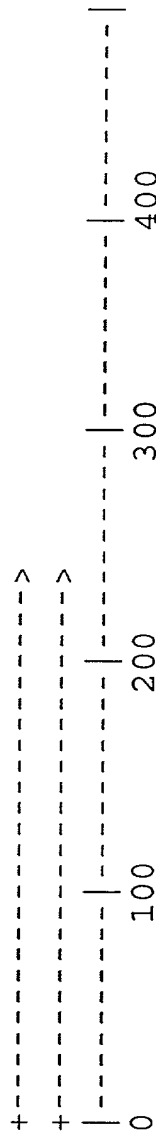
Contig: ugs026

2 ugs026
C CONSENSUS



Contig: ugs027

2 ugs027
C CONSENSUS



Contig: ugs028

2 ugs028
C CONSENSUS

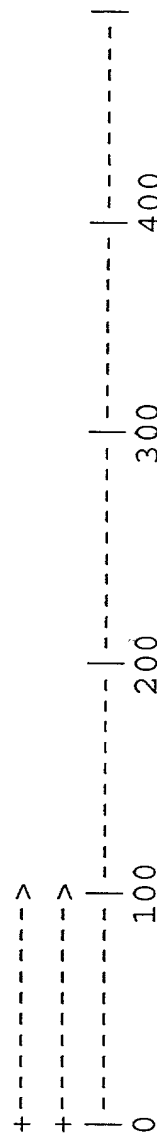
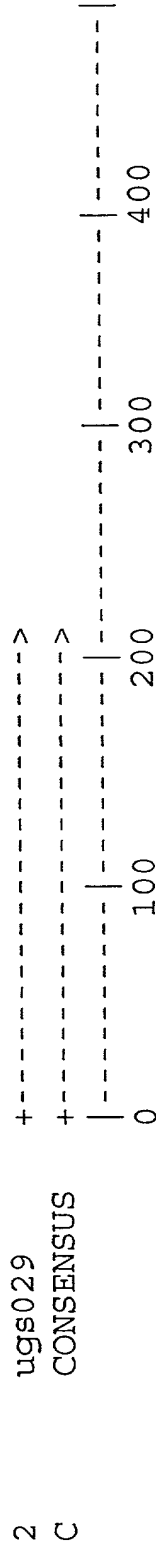


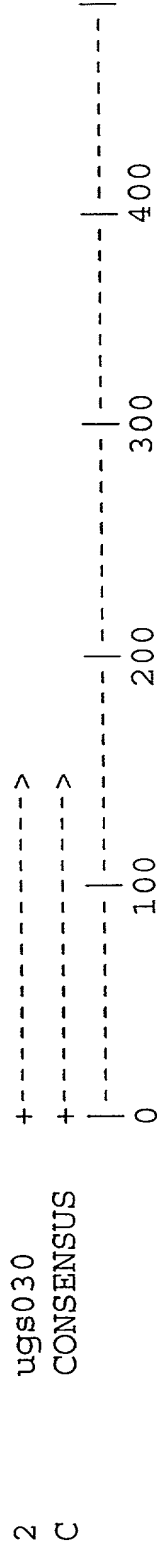
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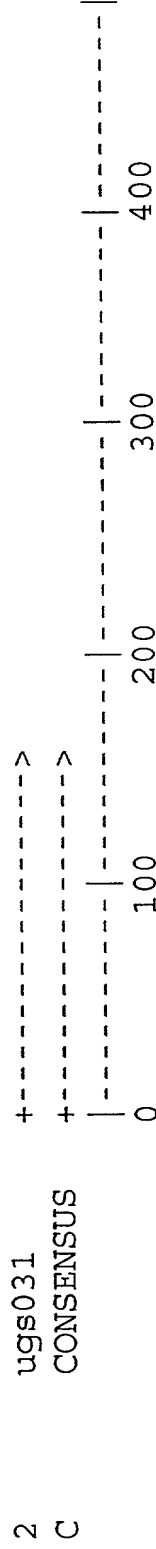
Contig: ugs029



Contig: ugs030



Contig: ugs031



Contig: ugs032

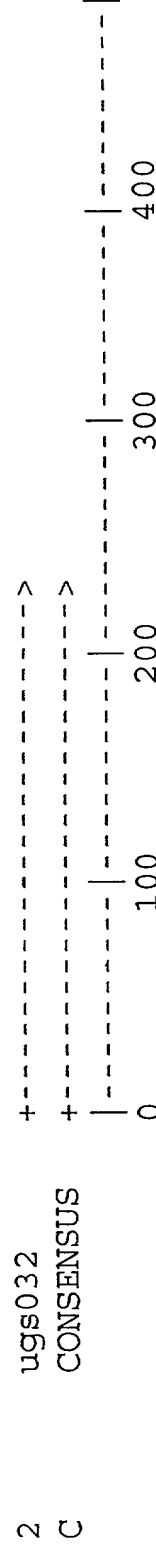


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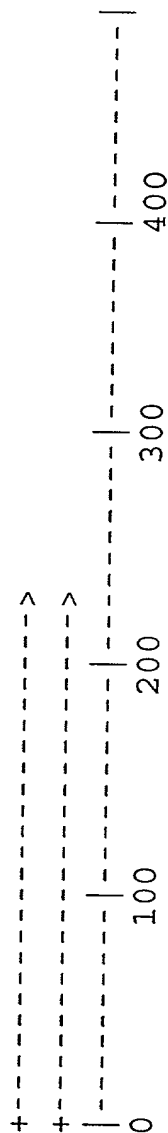
Contig: ugs033

2 ugs033
C CONSENSUS



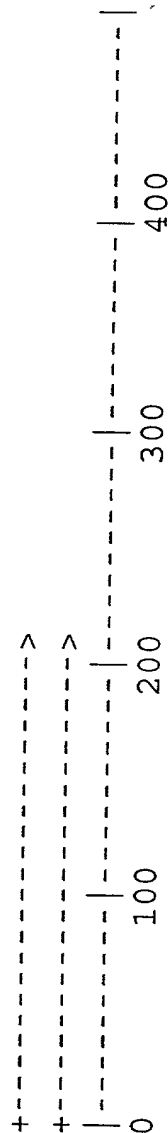
Contig: ugs034

2 ugs034
C CONSENSUS



Contig: ugs035

2 ugs035
C CONSENSUS



Contig: ugs039

2 ugs039
C CONSENSUS

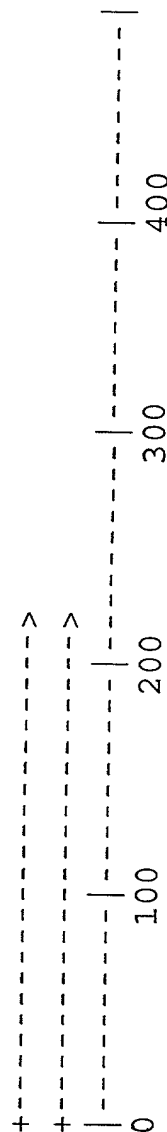
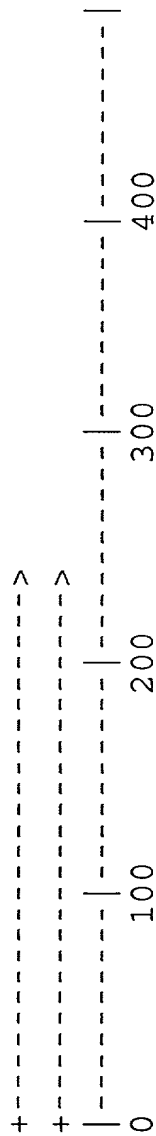


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410/472

Contig: ugs040

2 ugs040
 C CONSENSUS



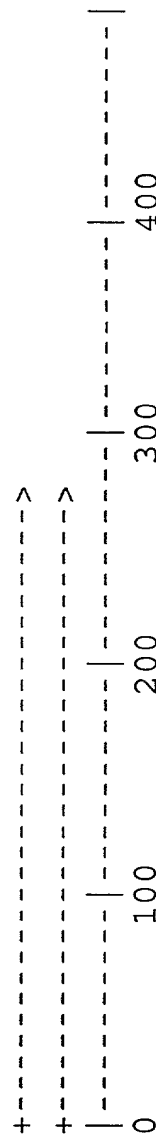
Contig: ugs041

2 ugs041
 C CONSENSUS



Contig: ugs042

2 ugs042
 C CONSENSUS



Contig: ugs043

2 ugs043
 C CONSENSUS

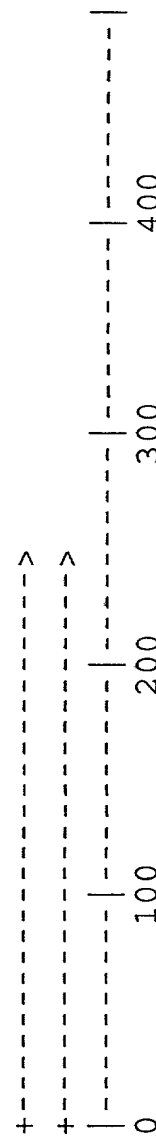
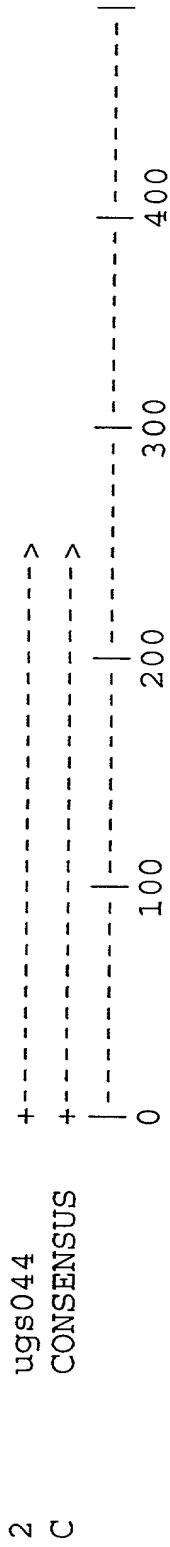


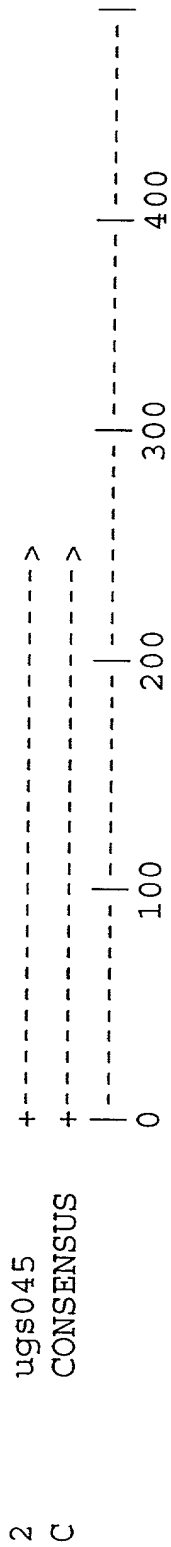
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411/472

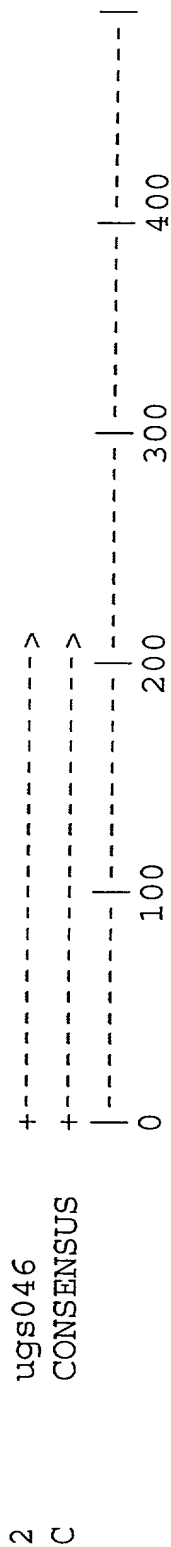
Contig: ugs044



Contig: ugs045



Contig: ugs046



Contig: ugs047

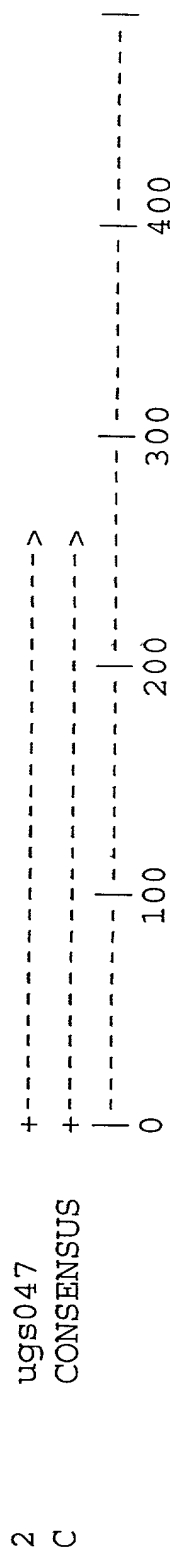
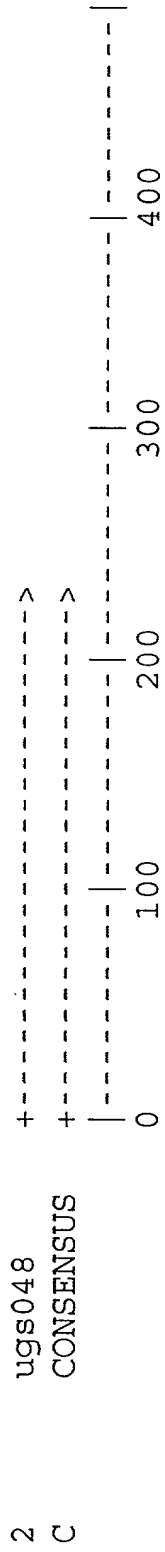


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412/472

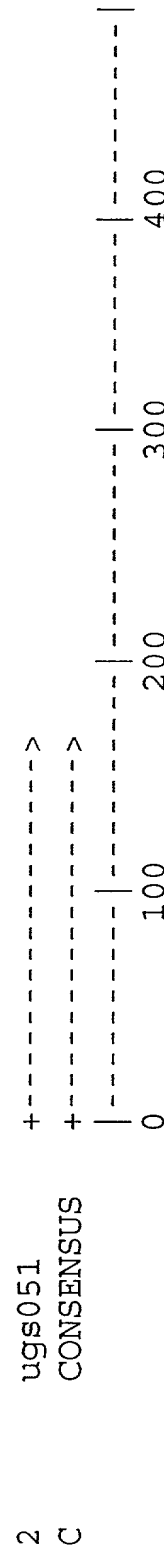
Contig: ugs048



Contig: ugs050



Contig: ugs051



Contig: ugs052

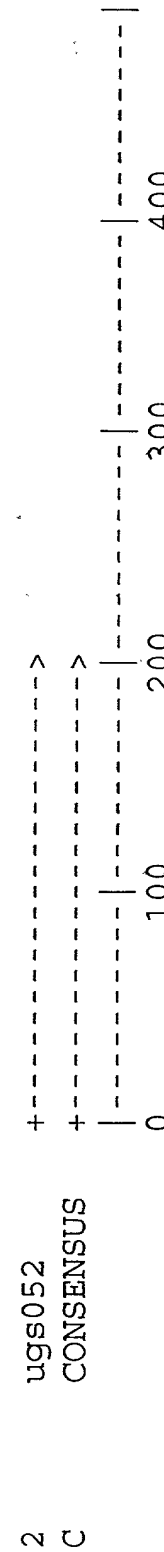
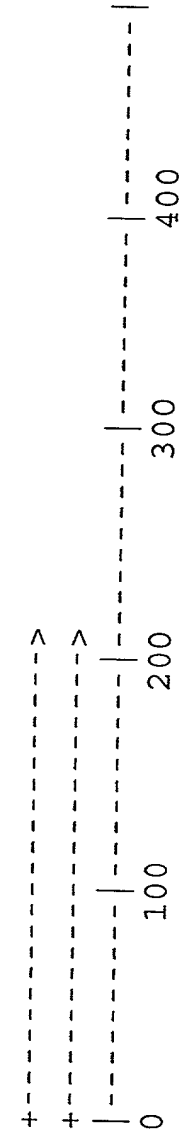


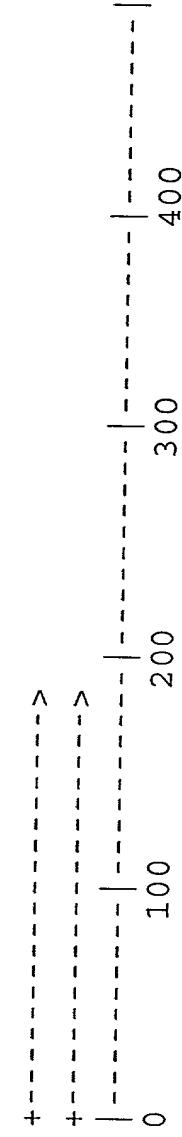
Fig. 8 - 145 of 180

413/472

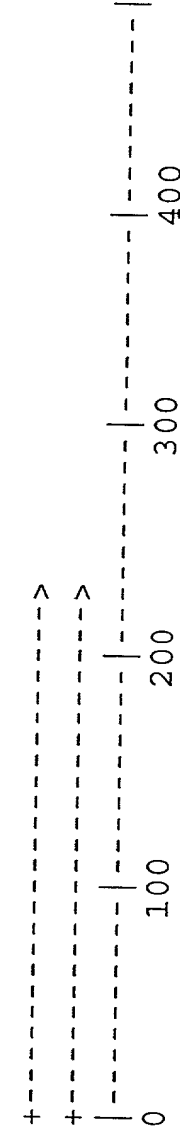
Contig: ugs054



Contig: ugs055



Contig: ugs059



Contig: ugs060

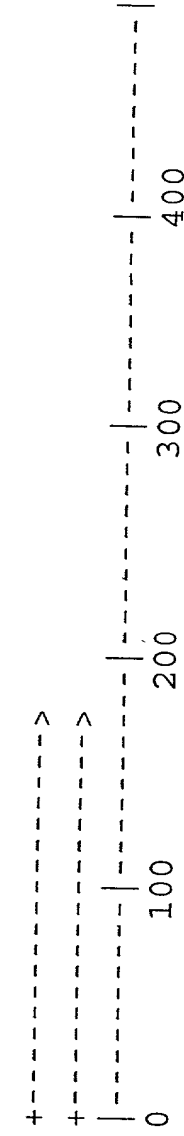
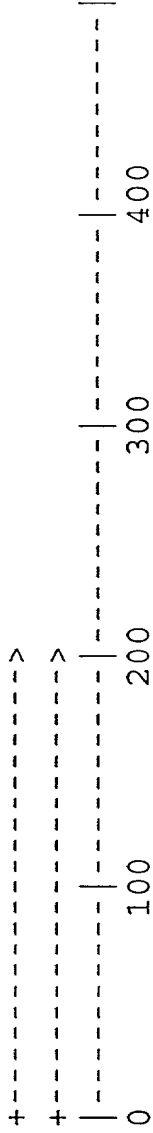


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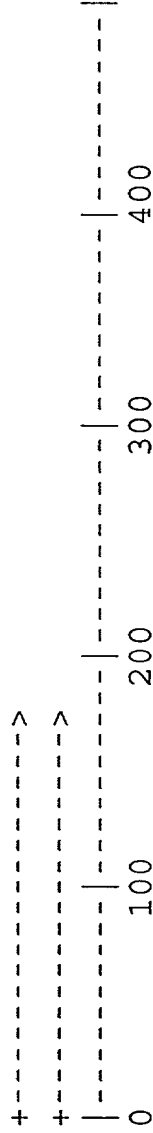
Contig: ugs063

2 ugs063
C CONSENSUS



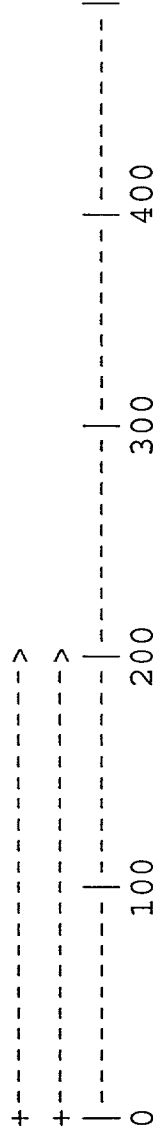
Contig: ugs064

2 ugs064
C CONSENSUS



Contig: ugs065

2 ugs065
C CONSENSUS



Contig: ugs066

2 ugs066
C CONSENSUS

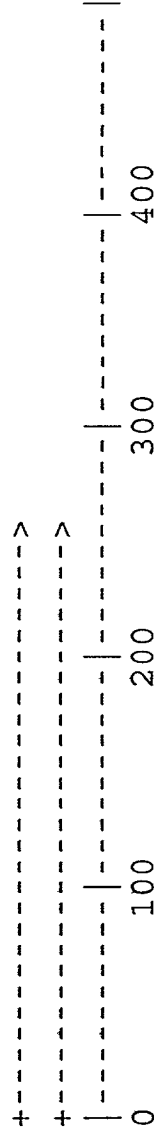
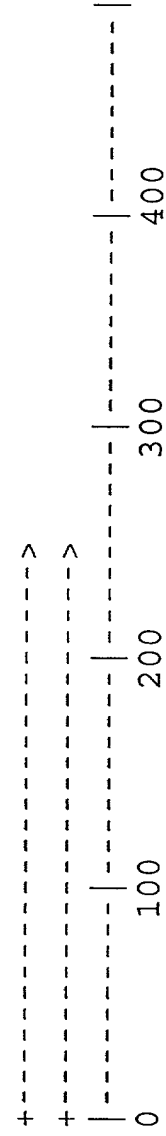


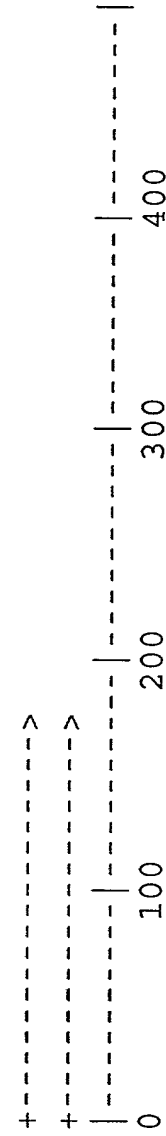
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415/472

Contig: ugs067



Contig: ugs068



Contig: ugs070



Contig: ugs071

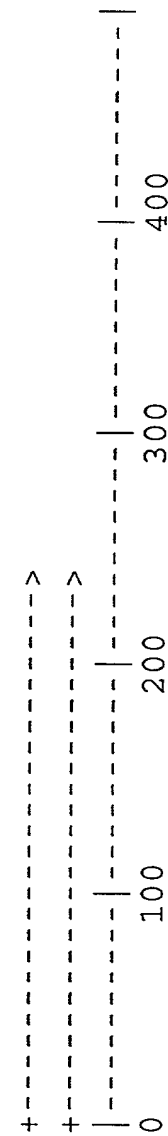
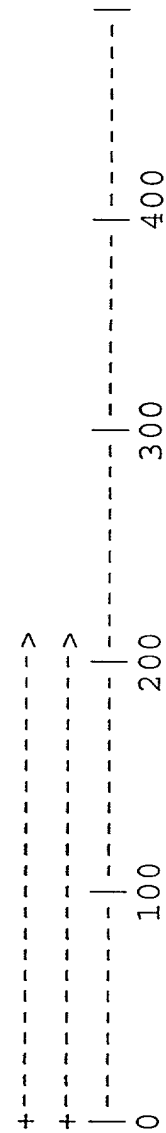


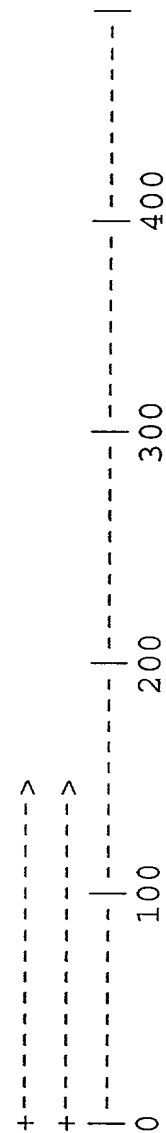
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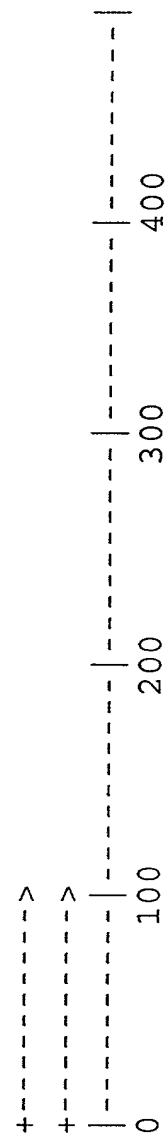
Contig: ugs072



Contig: ugs074



Contig: ugs077



Contig: ugs078

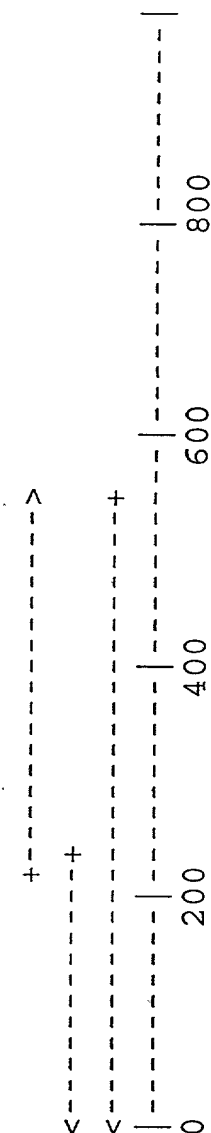
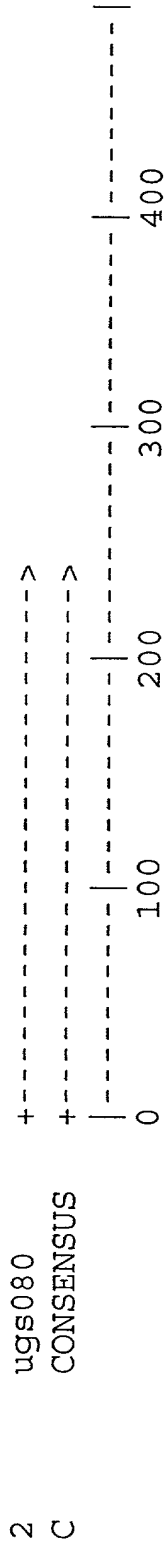


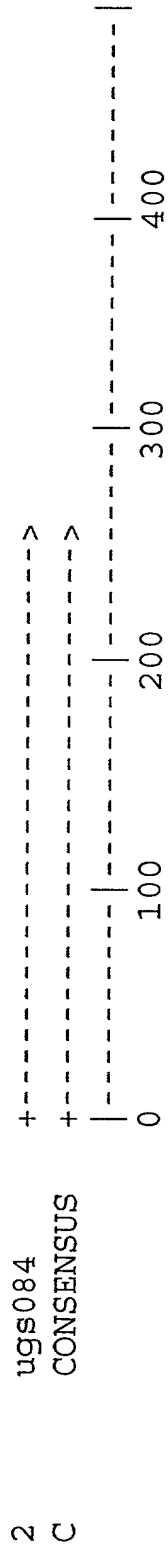
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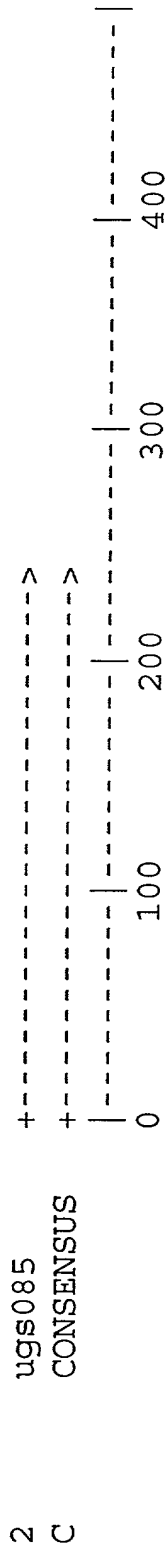
Contig: ugs080



Contig: ugs084



Contig: ugs085



Contig: ugs086

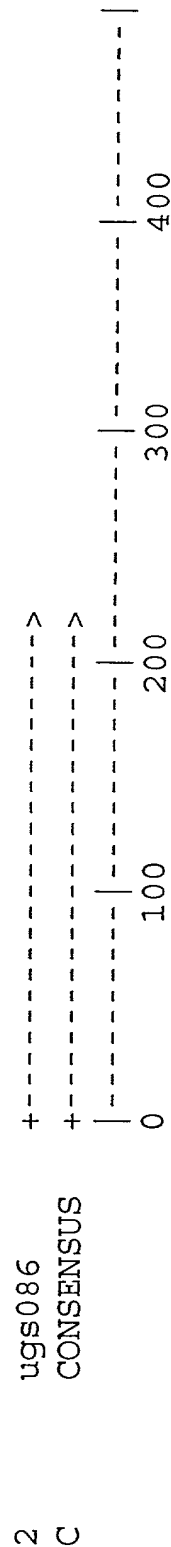
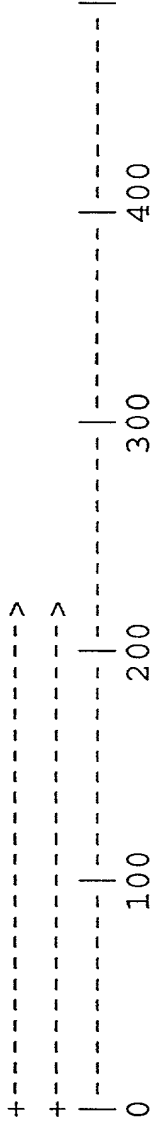


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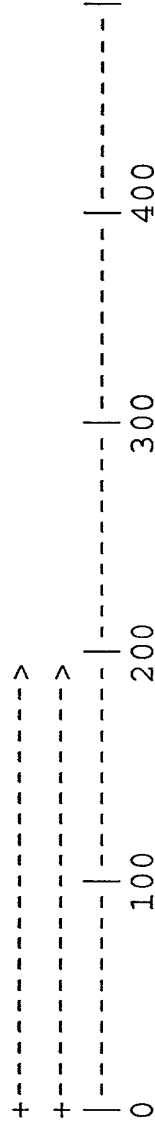
Contig: ugs087

2 ugs087
C CONSENSUS



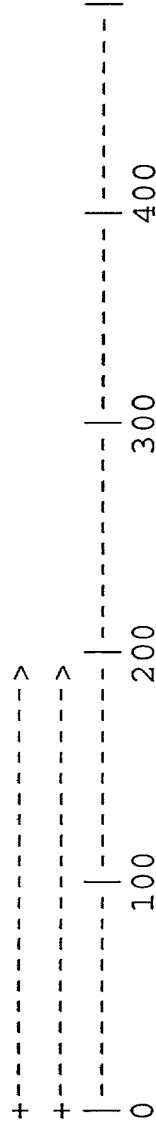
Contig: ugs088

2 ugs088
C CONSENSUS



Contig: ugs090

2 ugs090
C CONSENSUS



Contig: ugs091

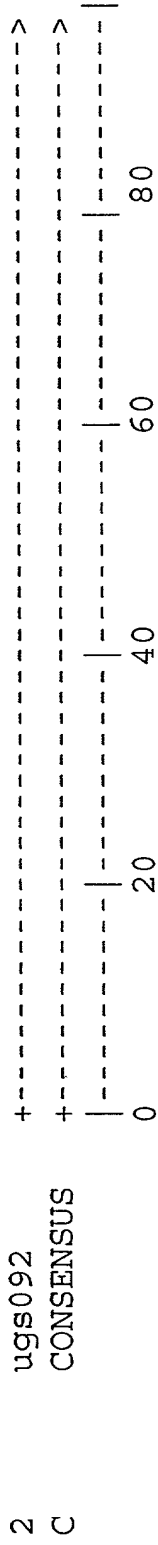
2 ugs091
C CONSENSUS



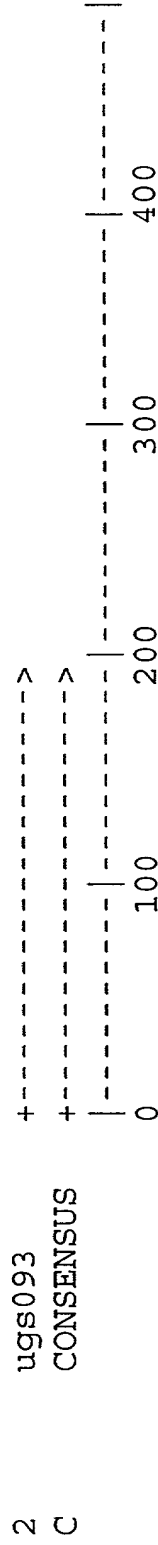
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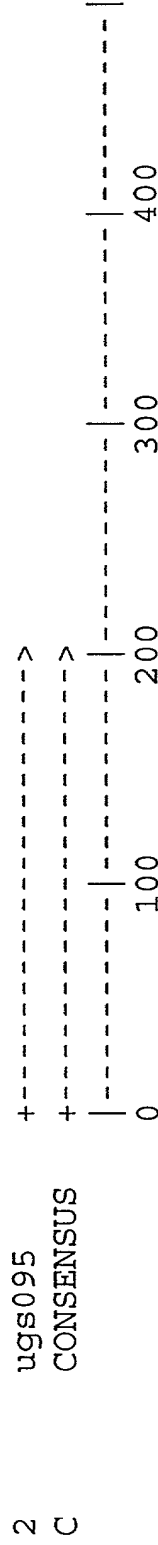
Contig: ugs092



Contig: ugs093



Contig: ugs095



Contig: ugs099

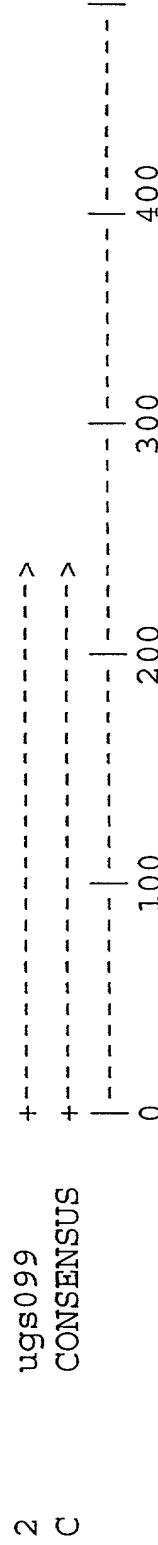
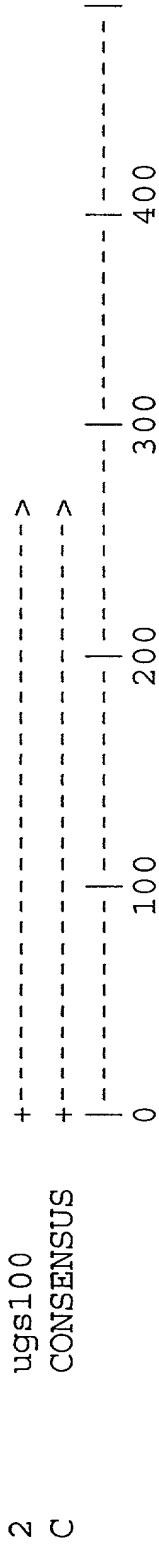


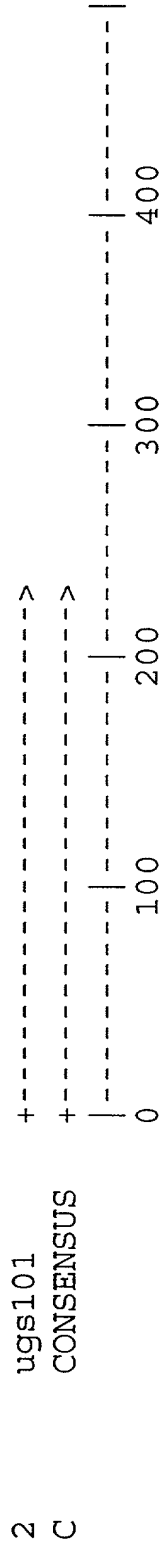
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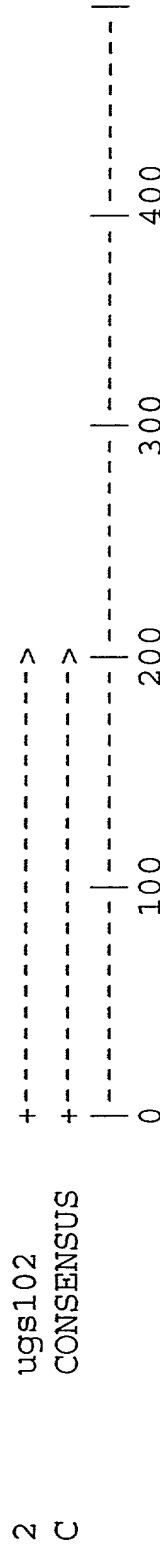
Contig: ugs100



Contig: ugs101



Contig: ugs102



Contig: ugs103

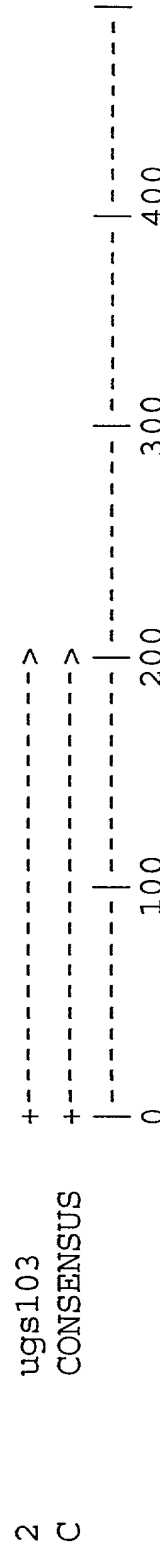
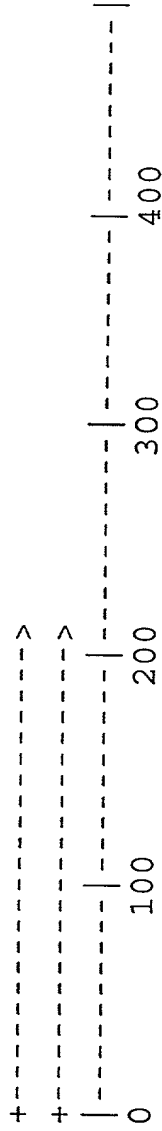


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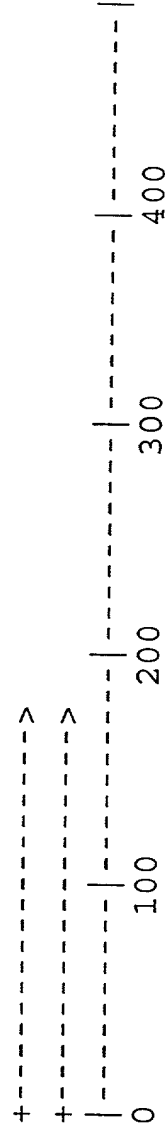
Contig: ugs105

2 ugs105
 C CONSENSUS



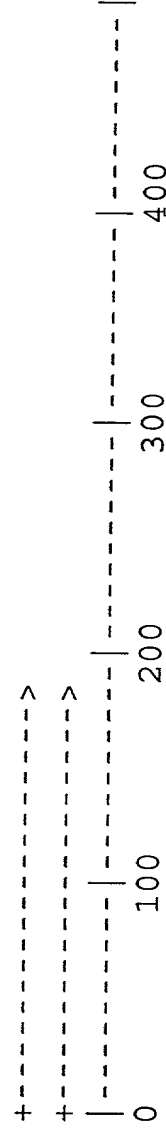
Contig: ugs106

2 ugs106
 C CONSENSUS



Contig: ugs107

2 ugs107
 C CONSENSUS



Contig: ugs108

2 ugs108
 C CONSENSUS

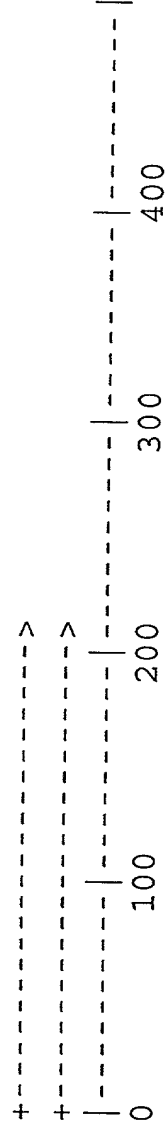
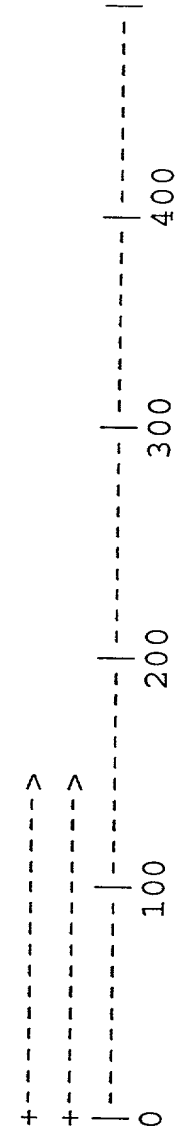


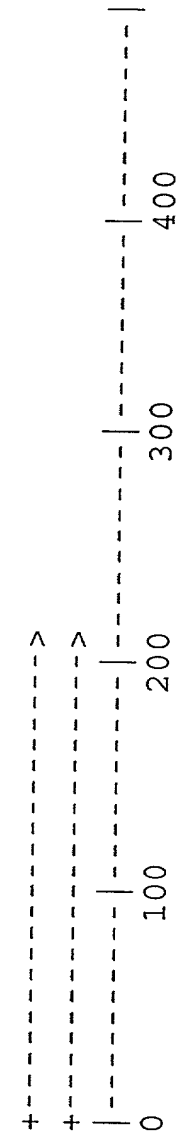
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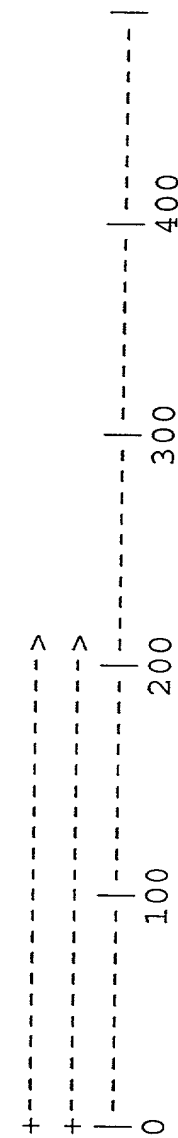
Contig: ugs110



Contig: ugs111



Contig: ugs112



Contig: ugs113

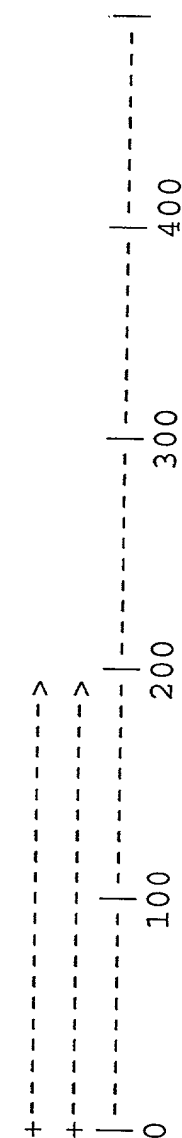
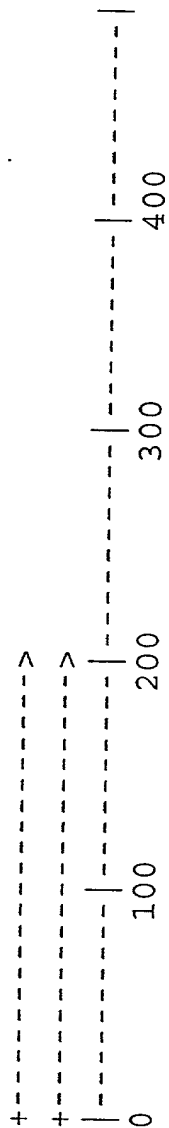


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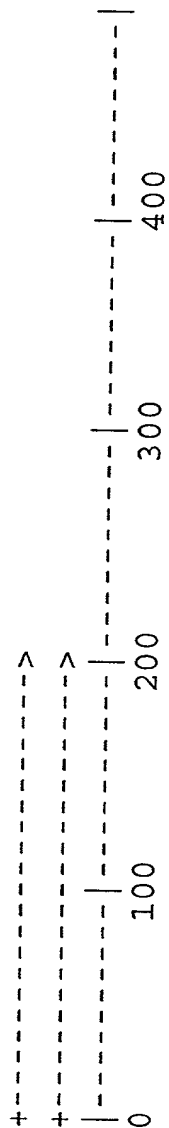
Contig: ugs114

2 ugs114
 C CONSENSUS



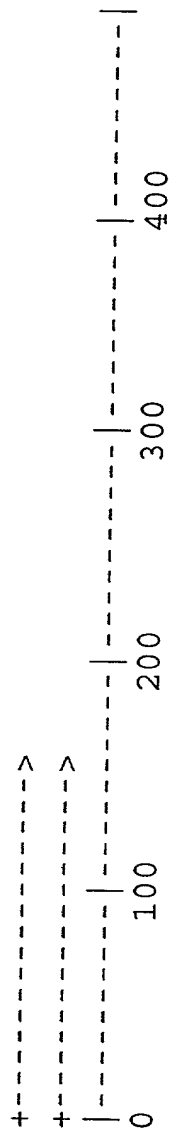
Contig: ugs115

2 ugs115
 C CONSENSUS



Contig: ugs116

2 ugs116
 C CONSENSUS



Contig: ugs117

2 ugs117
 C CONSENSUS

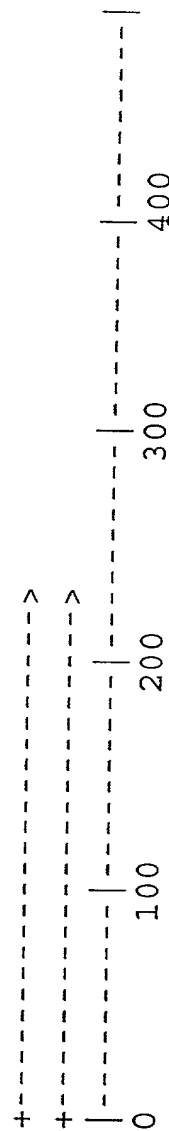
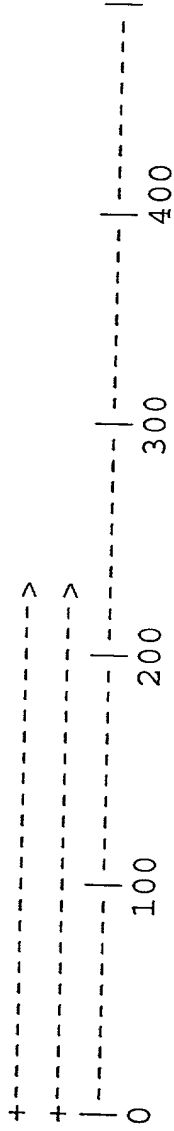


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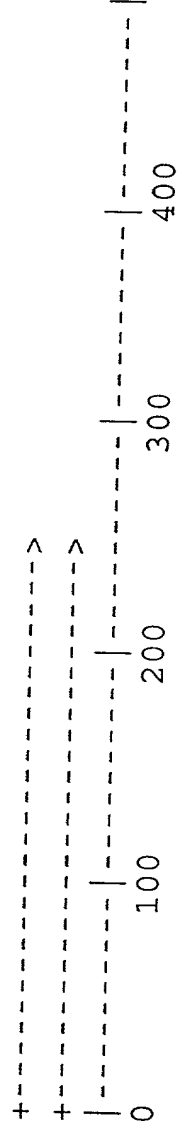
Contig: ugs118

2 ugs118
C CONSENSUS



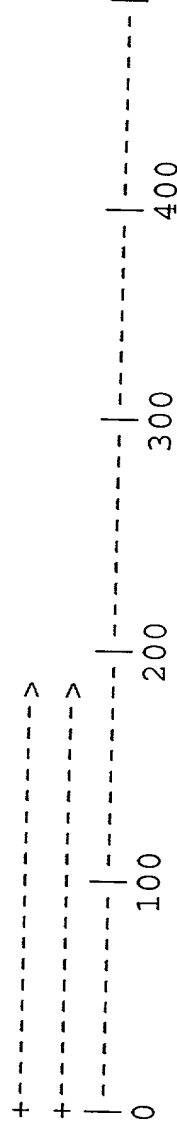
Contig: ugs119

2 ugs119
C CONSENSUS



Contig: ugs121

2 ugs121
C CONSENSUS



Contig: ugs122

2 ugs122
C CONSENSUS

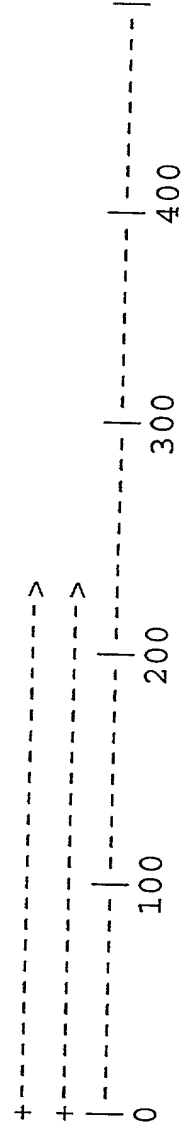
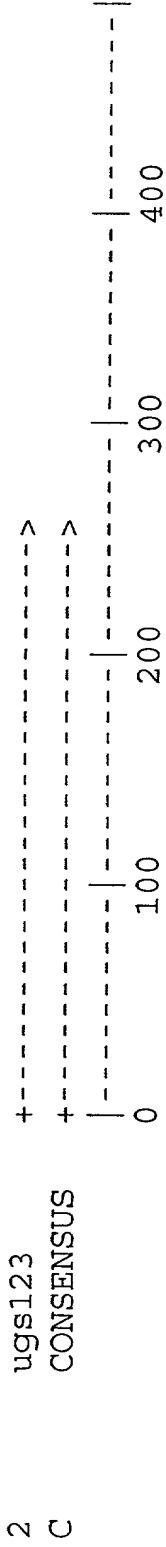


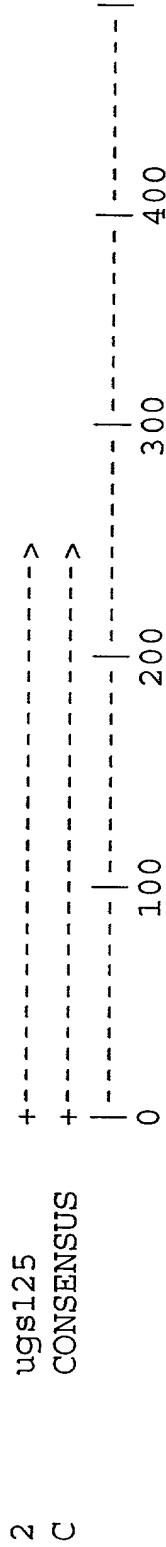
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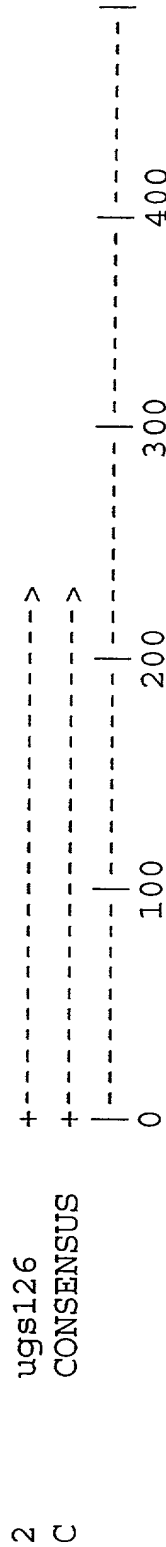
Contig: ugs123



Contig: ugs125



Contig: ugs126



Contig: ugs127

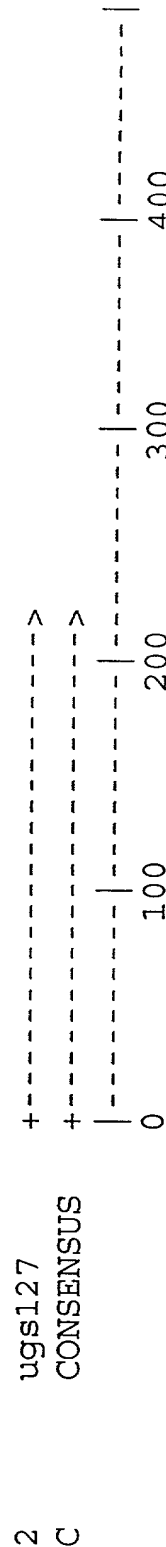
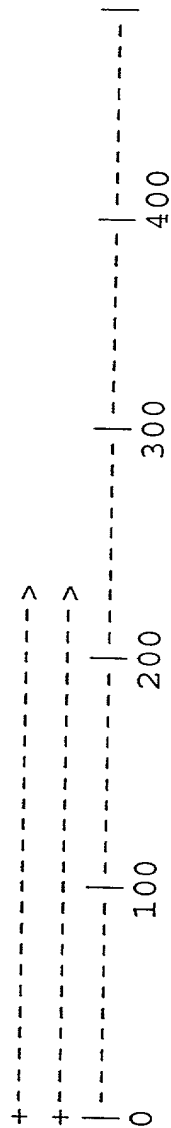


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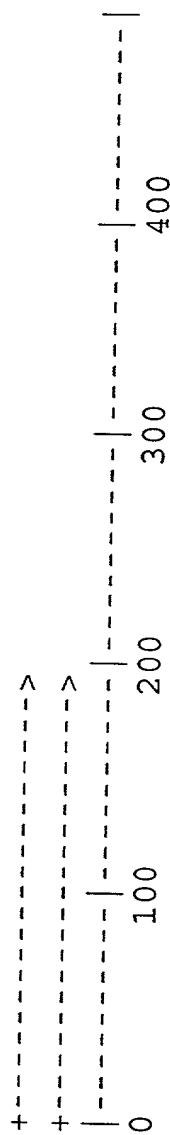
Contig: ugs128

2 ugs128
 C CONSENSUS



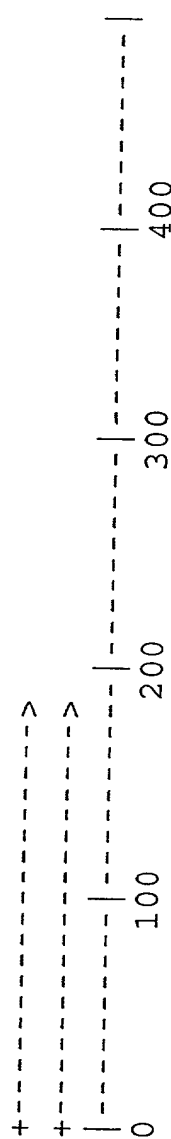
Contig: ugs129

2 ugs129
 C CONSENSUS



Contig: ugs131

2 ugs131
 C CONSENSUS



Contig: ugs133

2 ugs133
 C CONSENSUS

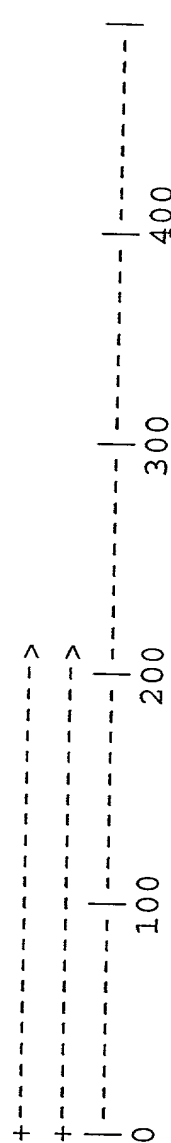
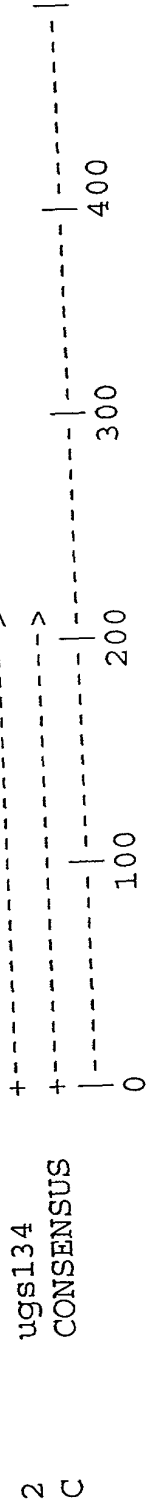


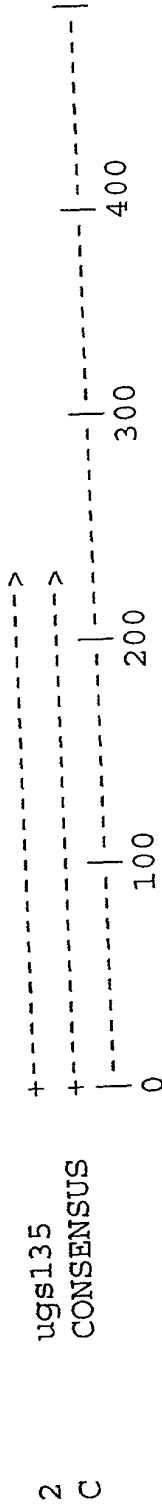
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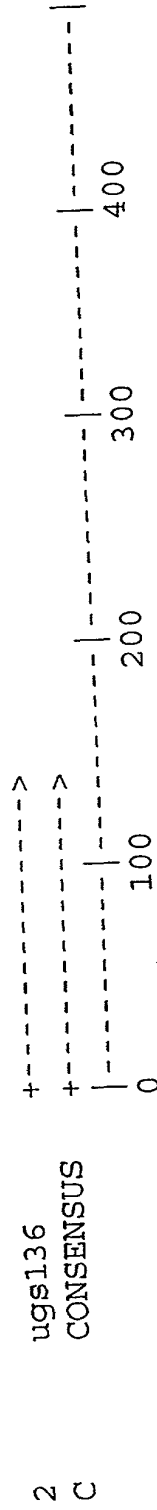
Contig: ugs134



Contig: ugs135



Contig: ugs136



Contig: ugs137

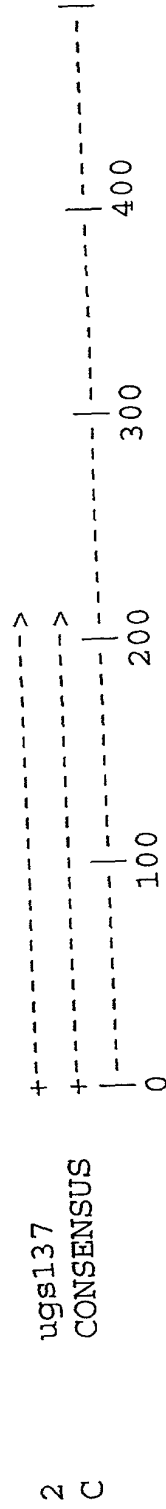
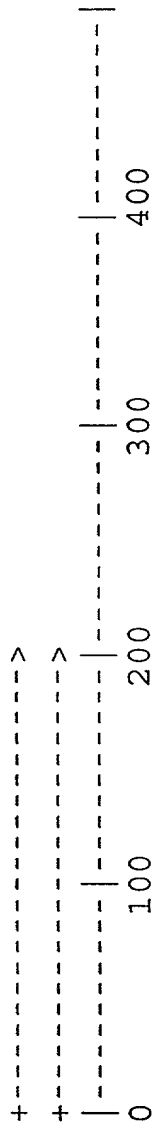


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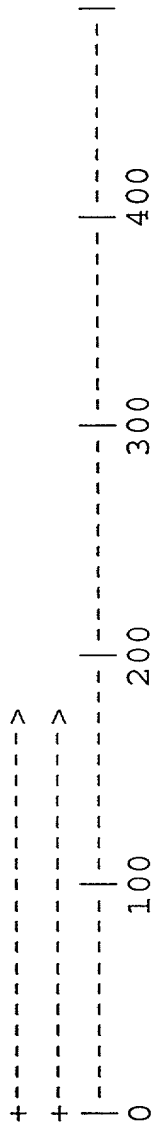
Contig: ugs138

2 ugs138
C CONSENSUS



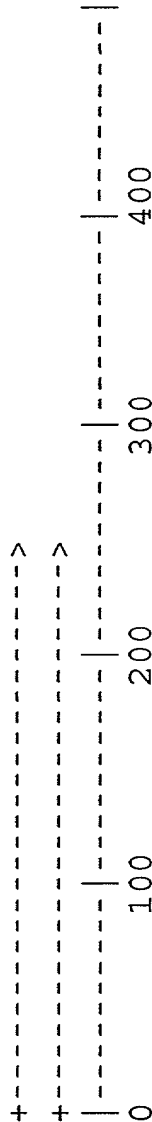
Contig: ugs139

2 ugs139
C CONSENSUS



Contig: ugs140

2 ugs140
C CONSENSUS



Contig: ugs142

2 ugs142
C CONSENSUS

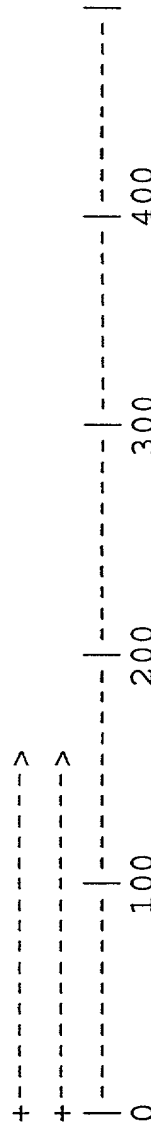
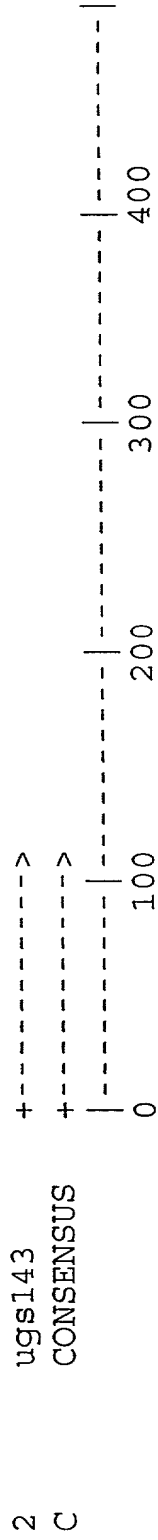


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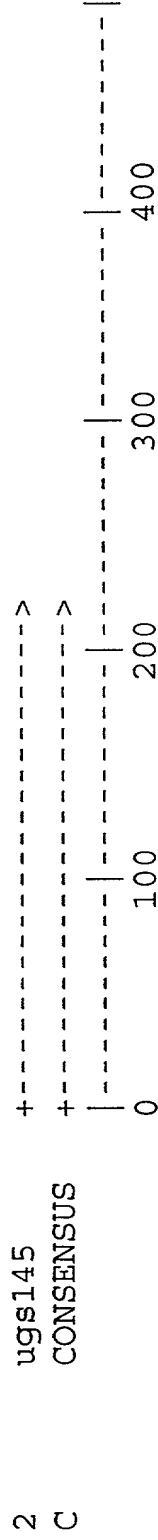
Contig: ugs143



Contig: ugs144



Contig: ugs145



Contig: ugs146

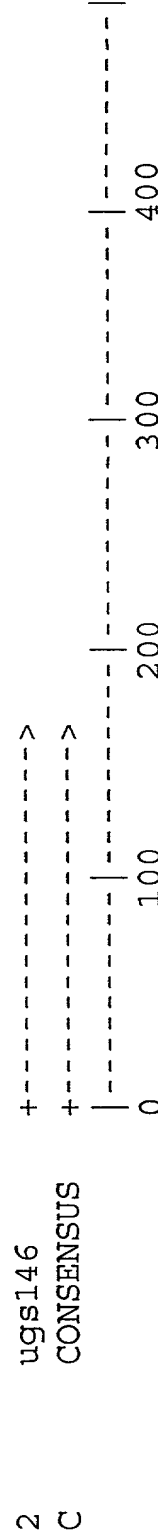
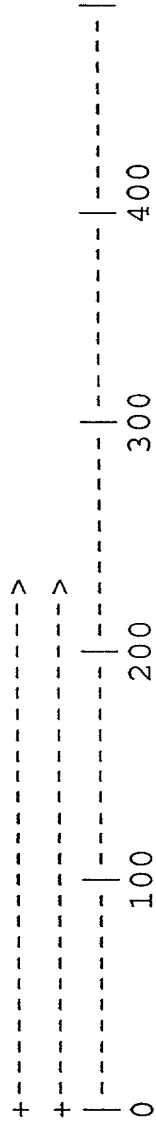


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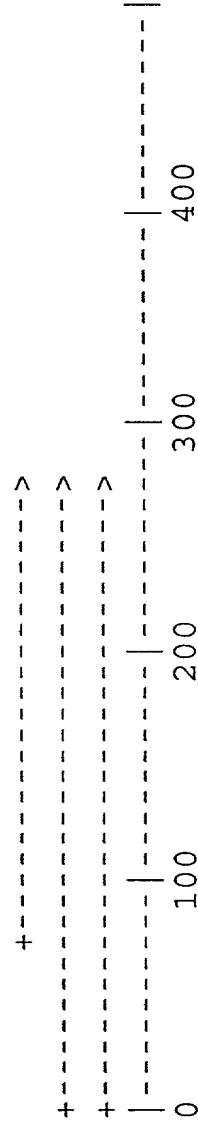
Contig: ugs147

2 ugs147
C CONSENSUS



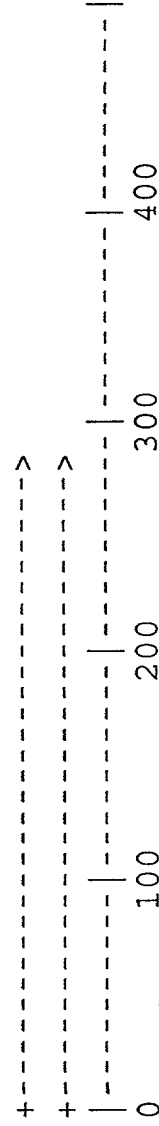
Contig: ugs148oft

3 ugs148
2 ugs148oft
C CONSENSUS



Contig: ugs148rs

2 ugs148rs
C CONSENSUS



Contig: ugs149

2 ugs149
C CONSENSUS

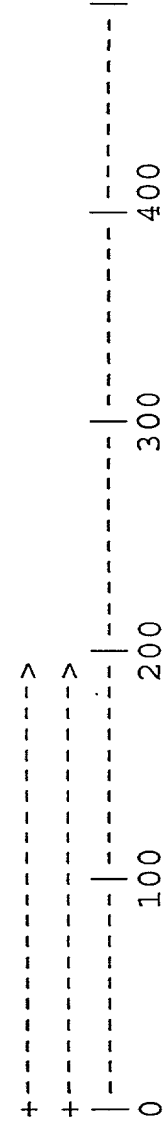
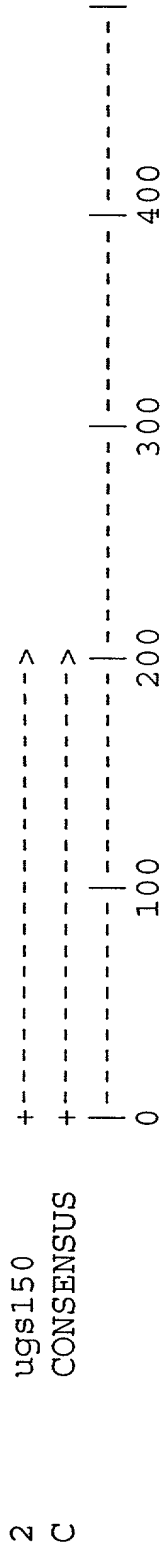


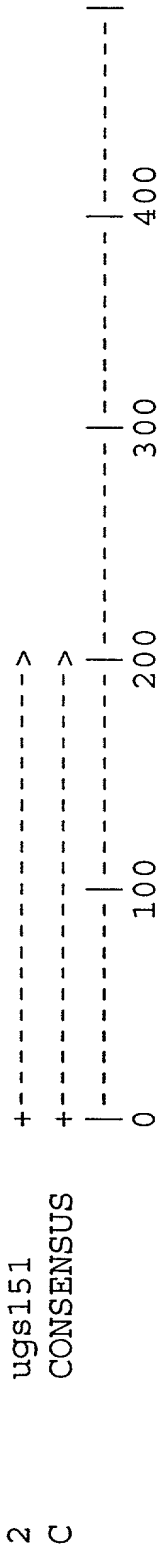
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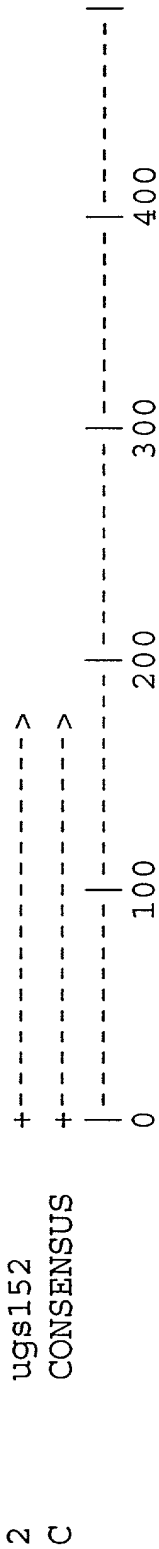
Contig: ugs150



Contig: ugs151



Contig: ugs152



Contig: ugs153

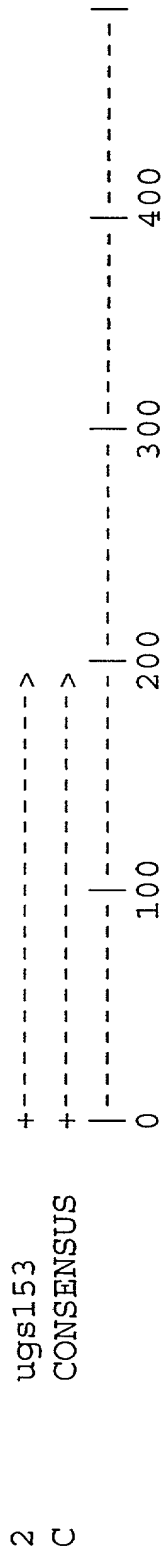
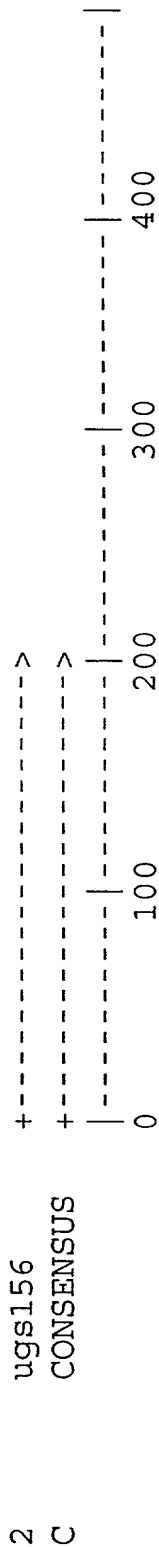


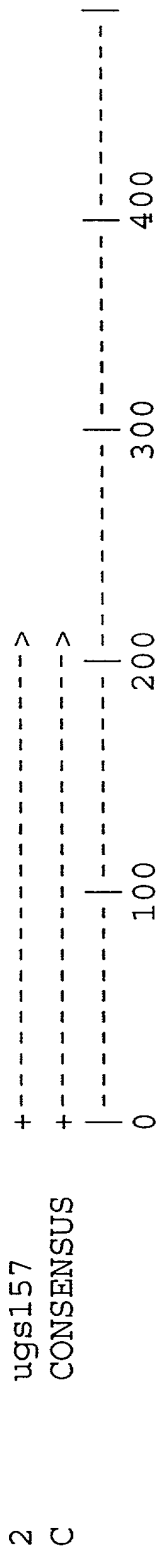
Fig. 8 - 164 of 180

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Contig: ugs156



Contig: ugs157



Contig: ugs159



Contig: ugs160

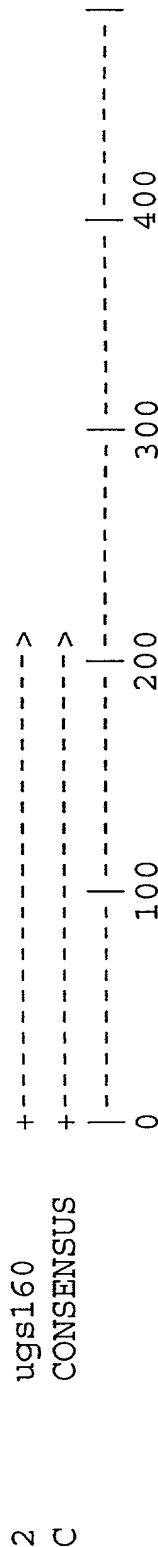
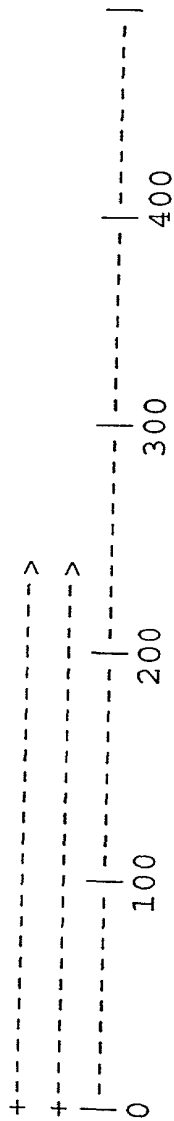


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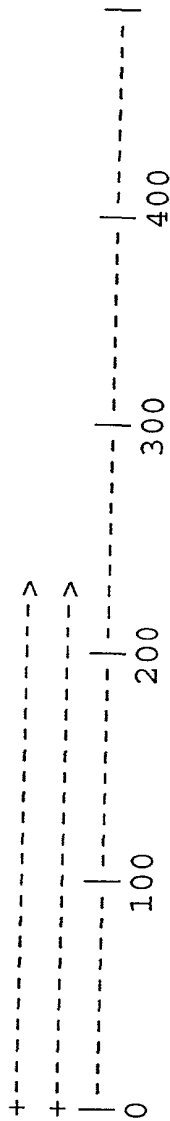
Contig: ugs163

2 ugs163
C CONSENSUS



Contig: ugs164

2 ugs164
C CONSENSUS



Contig: ugs165

2 ugs165
C CONSENSUS



Contig: ugs167

2 ugs167
C CONSENSUS

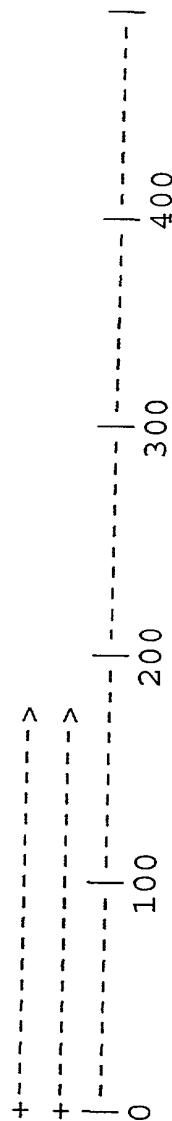
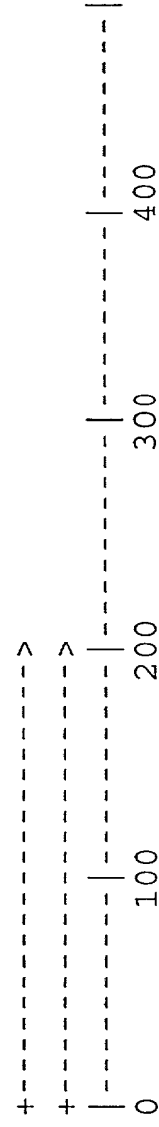


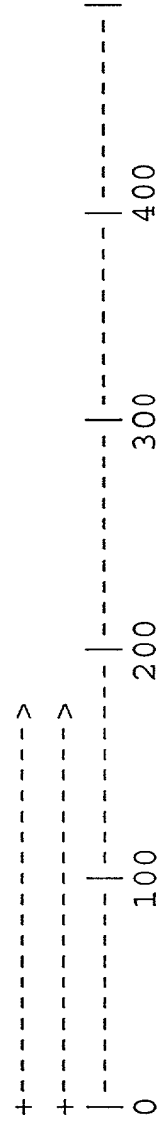
Fig. 8 - 166 of 180

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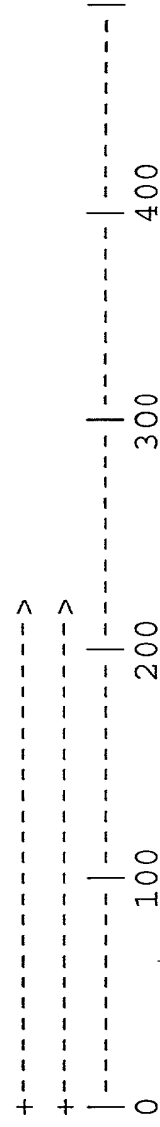
Contig: ugs168



Contig: ugs172



Contig: ugs173



Contig: ugs174

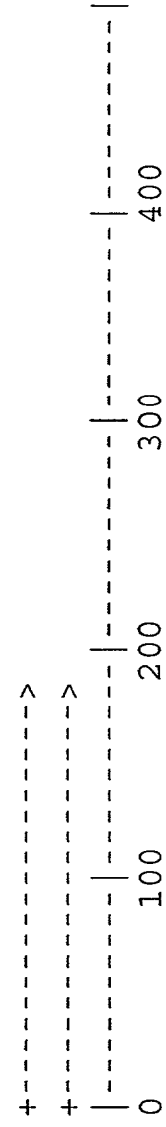
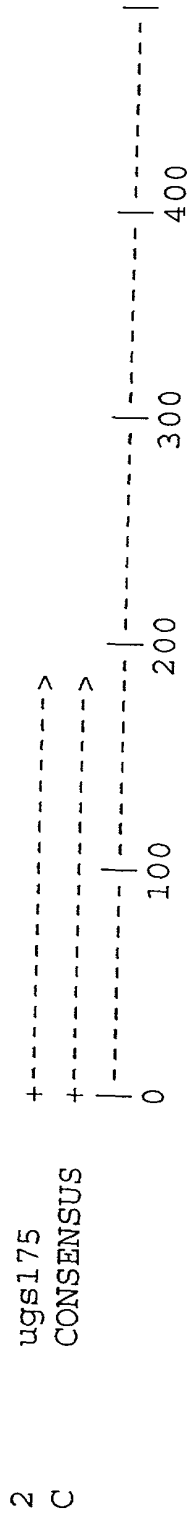


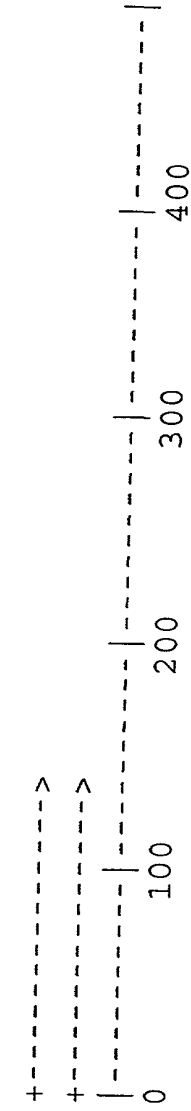
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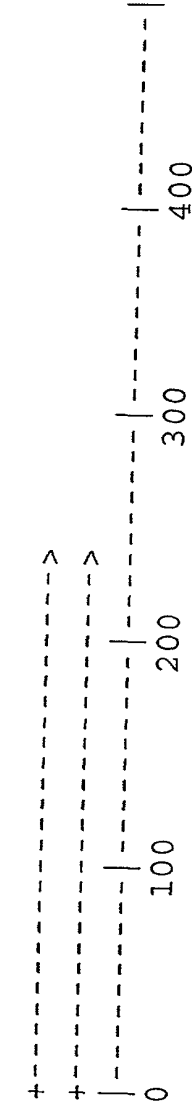
Contig: ugs175



Contig: ugs177



Contig: ugs178



Contig: ugs179

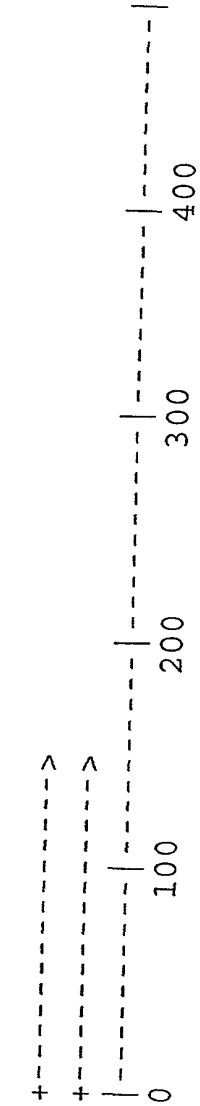
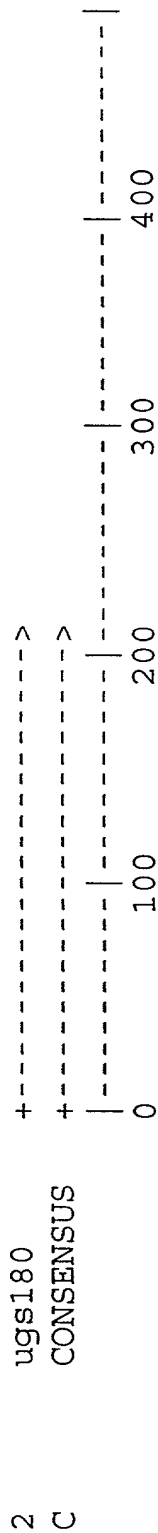


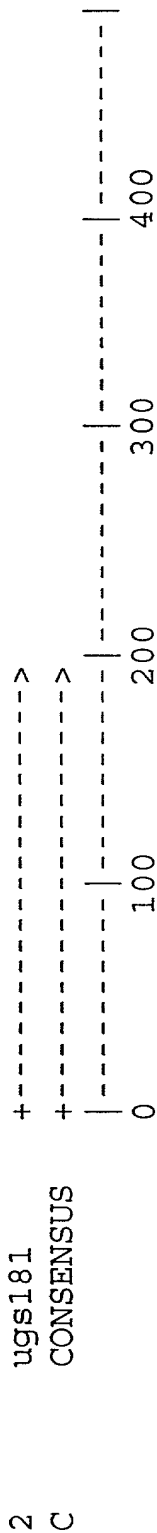
Fig. 8 - 168 of 180

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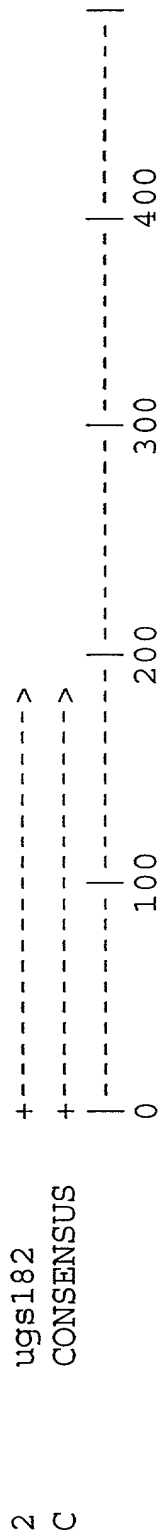
Contig: ugs180



Contig: ugs181



Contig: ugs182



Contig: ugs183

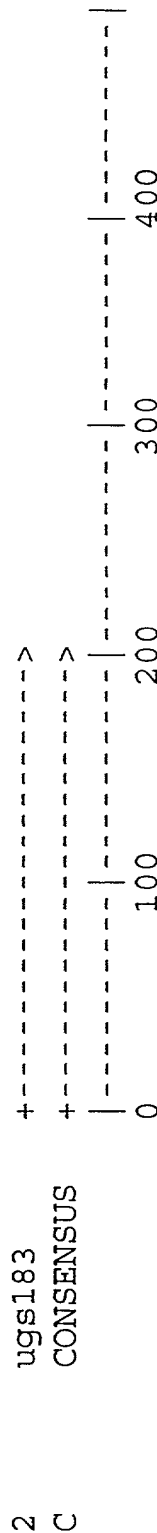
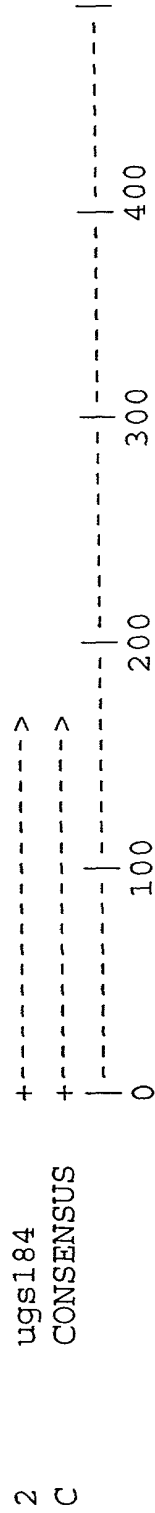


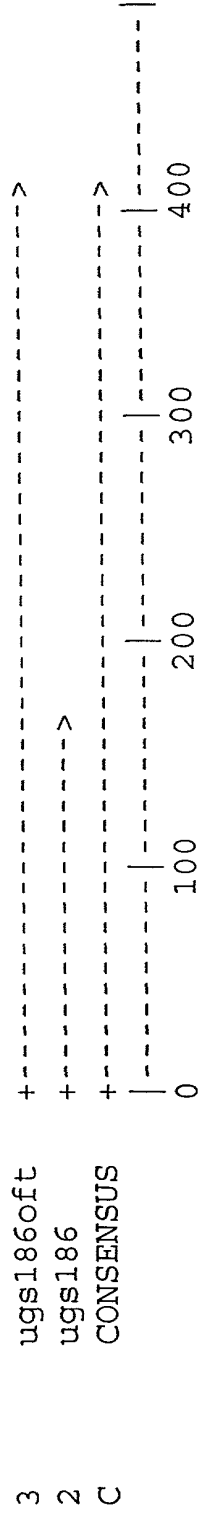
Fig. 8 - 169 of 180

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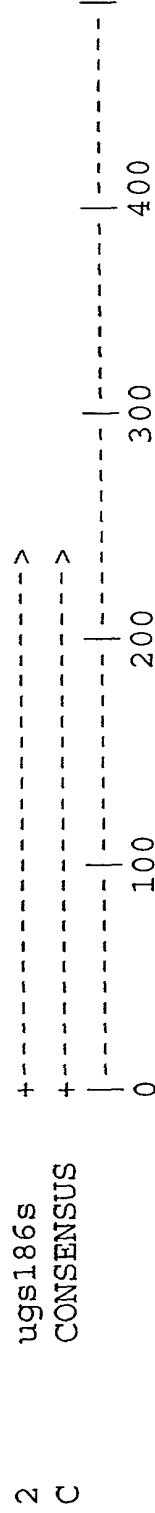
Contig: ugs184



Contig: ugs186



Contig: ugs186s



Contig: ugs187

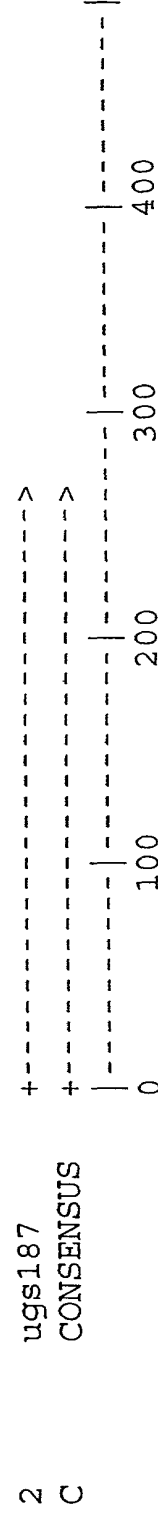
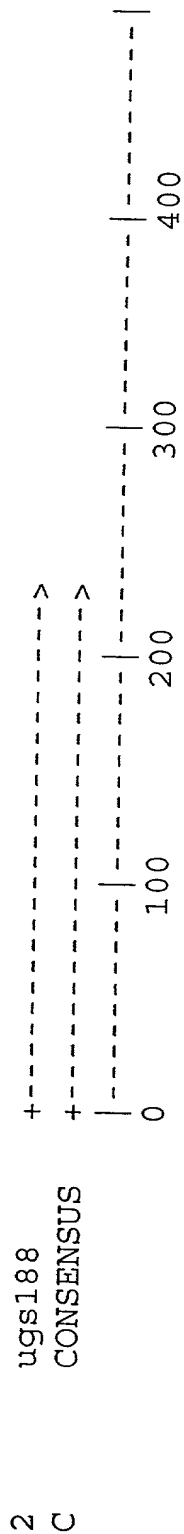


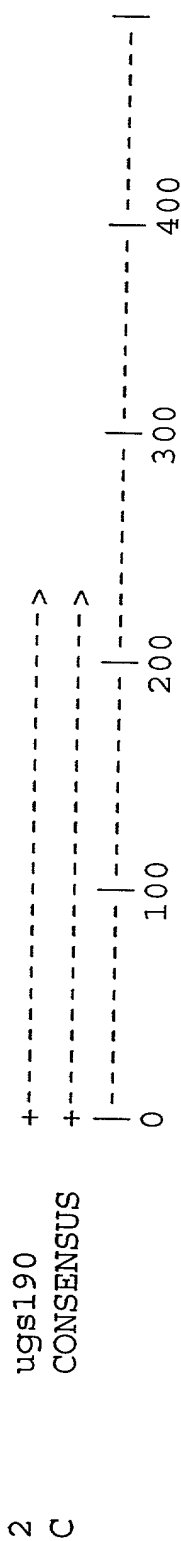
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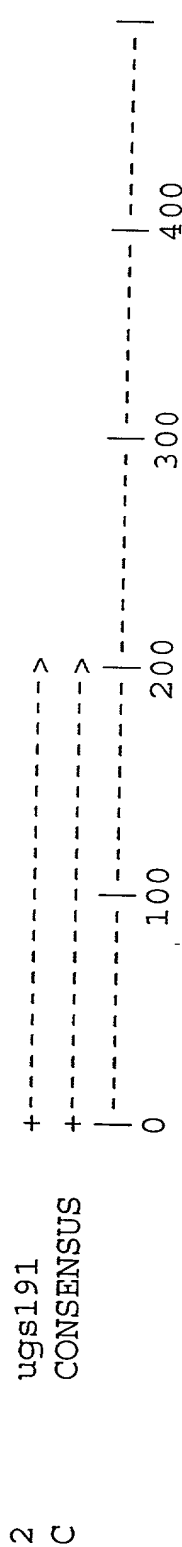
Contig: ugs188



Contig: ugs190



Contig: ugs191



Contig: ugs192

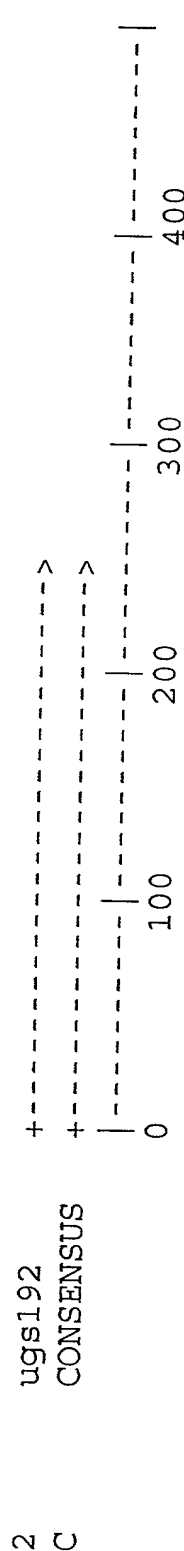
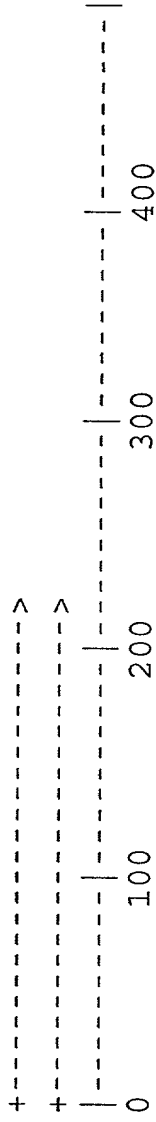


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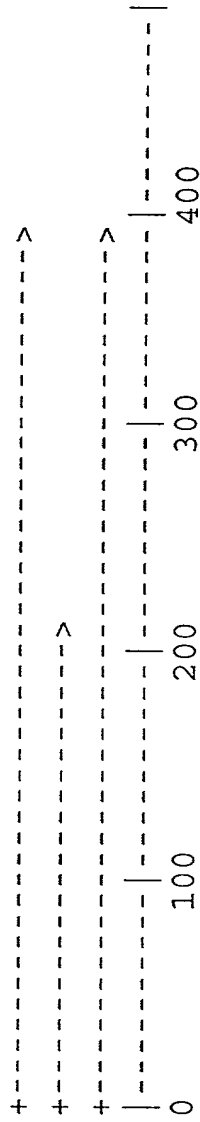
Contig: ugs193

2 ugs193
C CONSENSUS



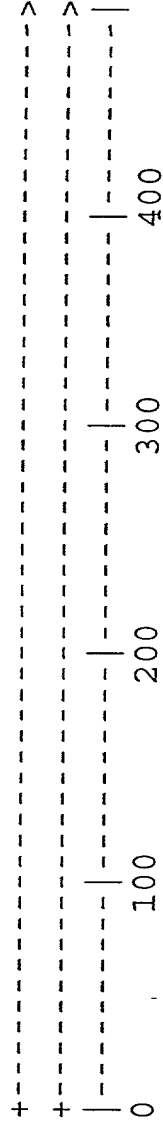
Contig: ugs194

3 ugs194oft
2 ugs194
C CONSENSUS



Contig: ugs194rs

2 ugs194rs
C CONSENSUS



Contig: ugs195

2 ugs195
C CONSENSUS



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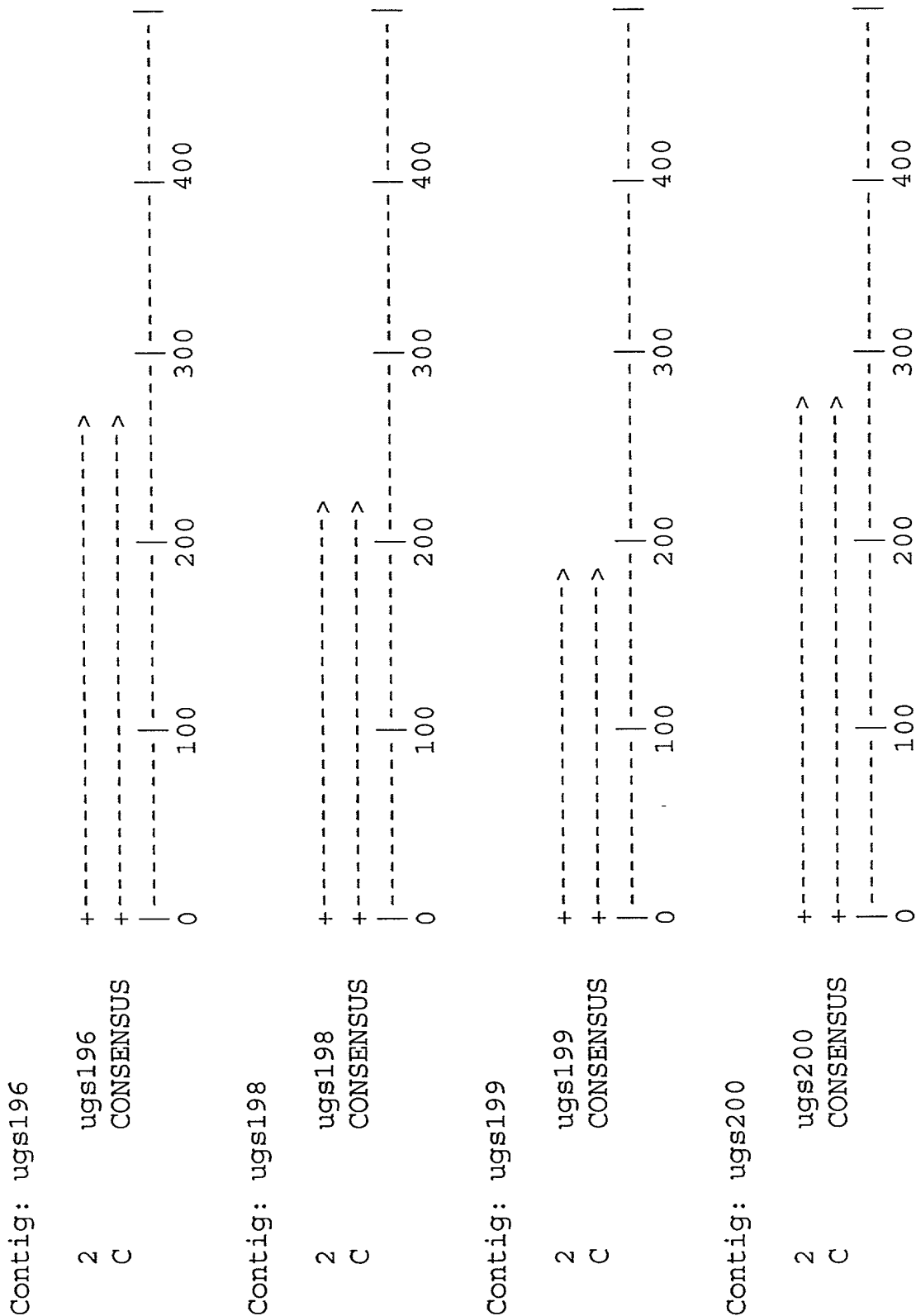
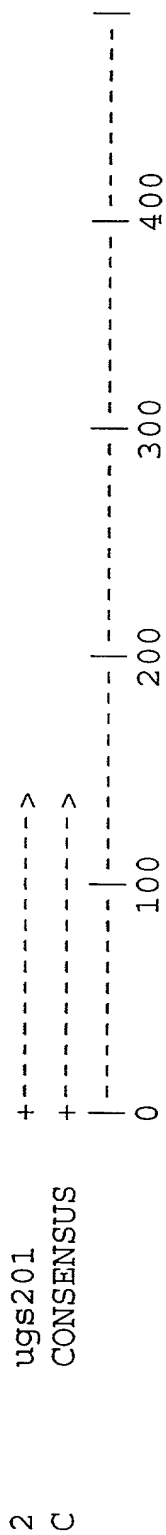


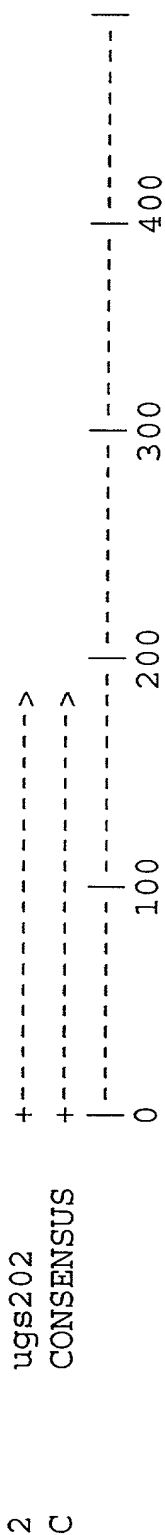
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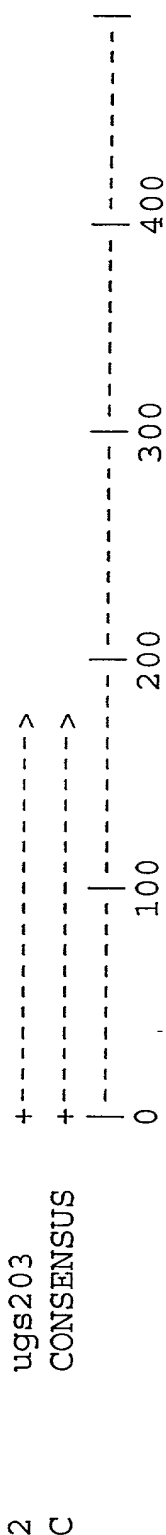
Contig: ugs201



Contig: ugs202



Contig: ugs203



Contig: ugs204

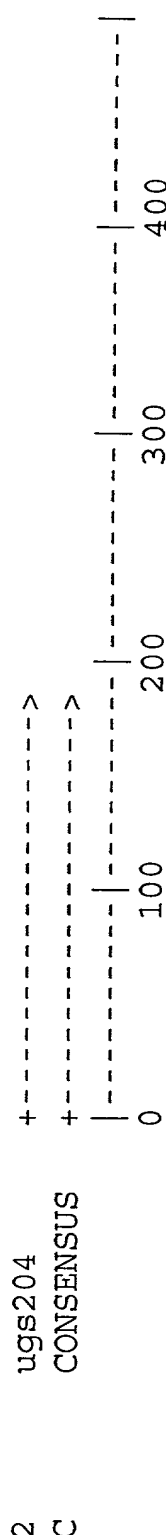
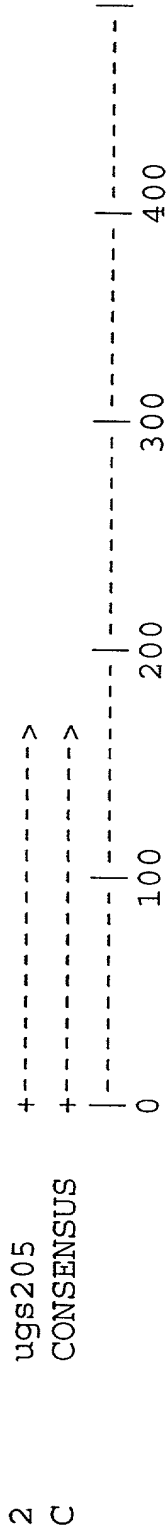


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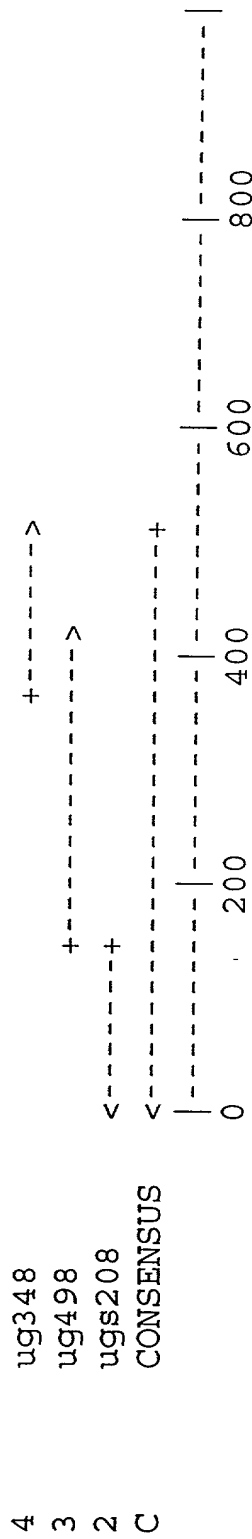
Contig: ugs205



Contig: ugs206



Contig: ugs208



Contig: ugs210

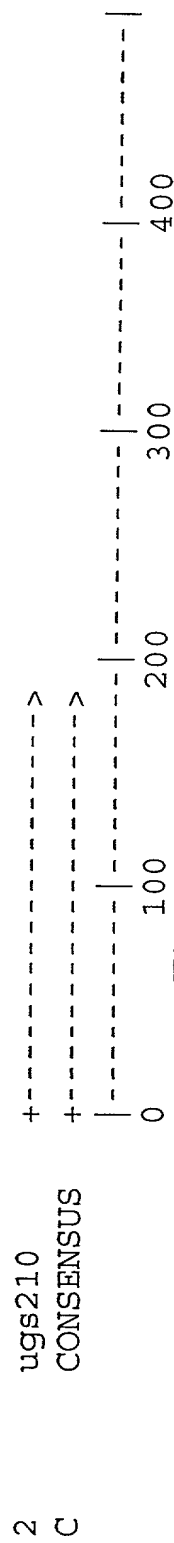
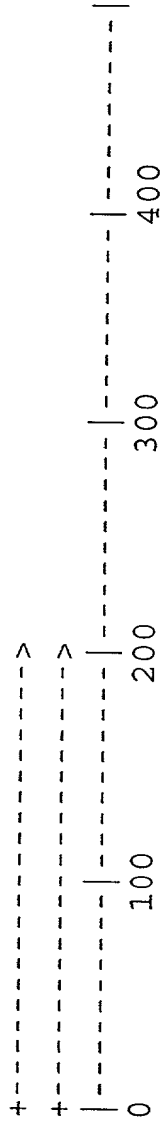


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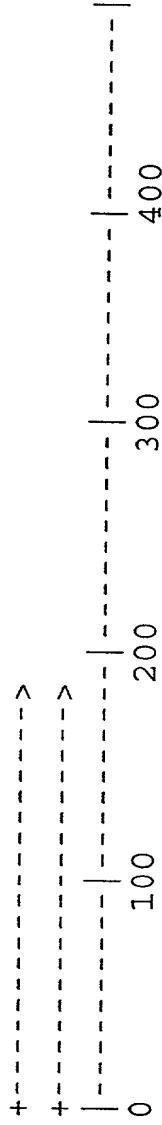
Contig: ugs211

2 ugs211
C CONSENSUS



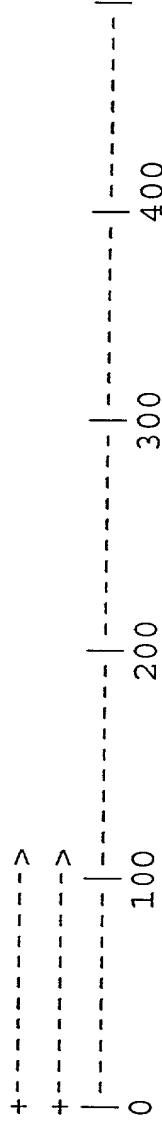
Contig: ugs212

2 ugs212
C CONSENSUS



Contig: ugs213

2 ugs213
C CONSENSUS



Contig: ugs214

2 ugs214
C CONSENSUS

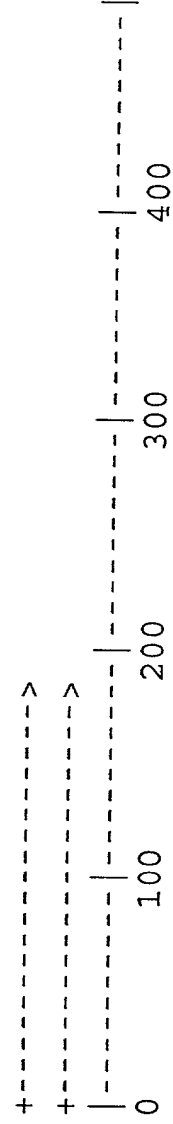
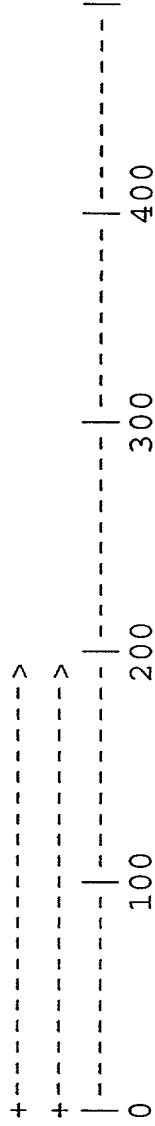


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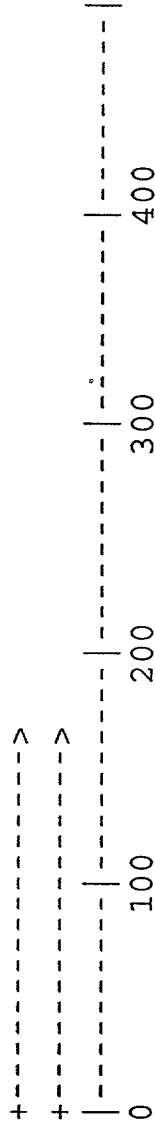
Contig: ugs216

2 ugs216
C CONSENSUS



Contig: ugs217

2 ugs217
C CONSENSUS



Contig: ugs218

2 ugs218
C CONSENSUS



Contig: ugs219

2 ugs219
C CONSENSUS

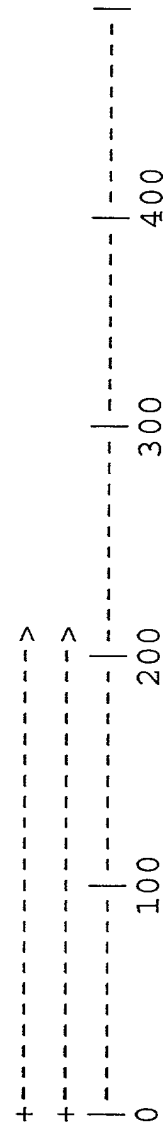
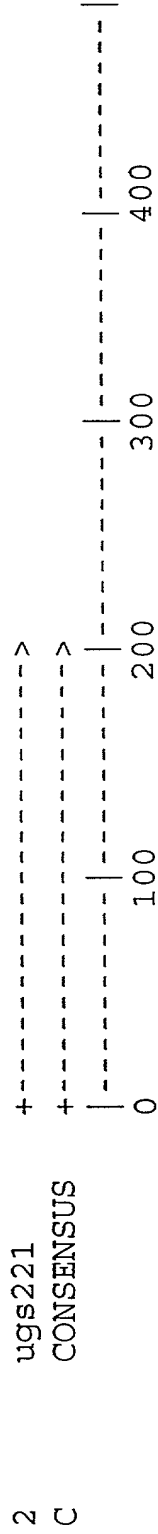


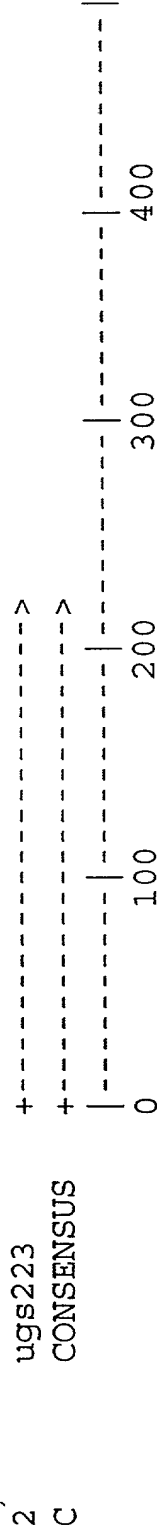
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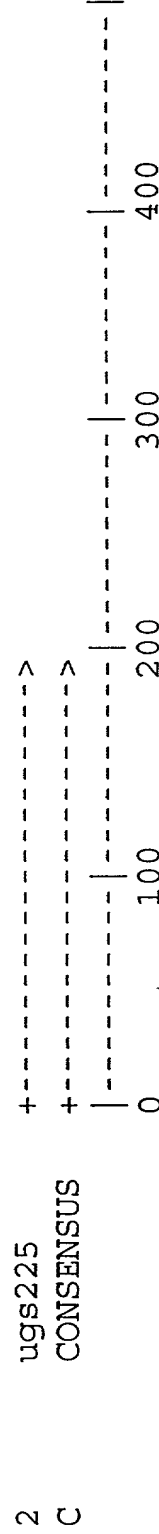
Contig: ugs221



Contig: ugs223



Contig: ugs225



Contig: ugs227

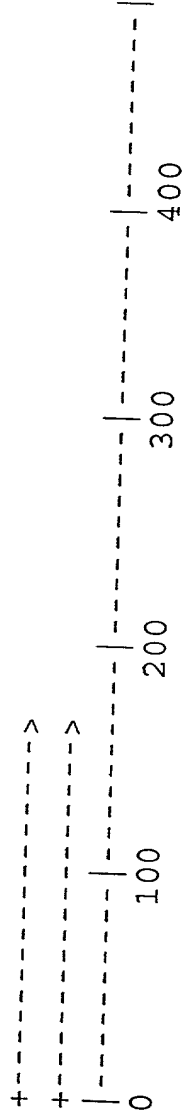


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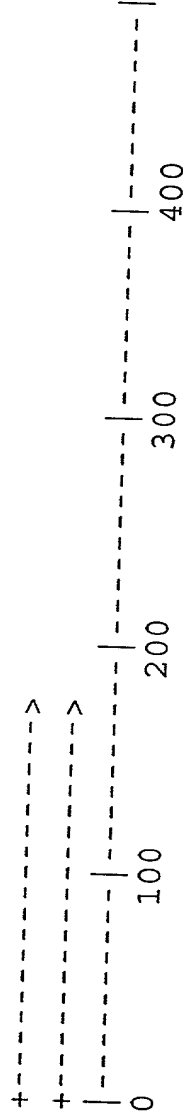
Contig: ugs228

2 ugs228
C CONSENSUS



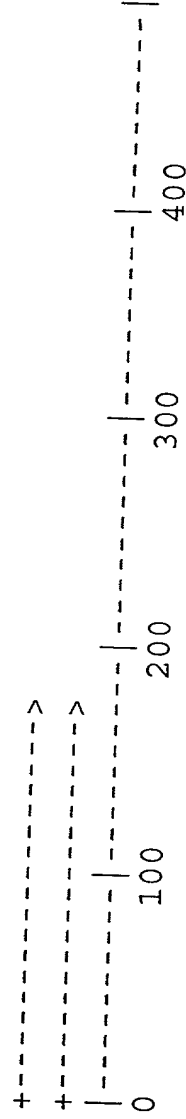
Contig: ugs229

2 ugs229
C CONSENSUS



Contig: ugs231

2 ugs231
C CONSENSUS



Contig: ugs232

2 ugs232
C CONSENSUS

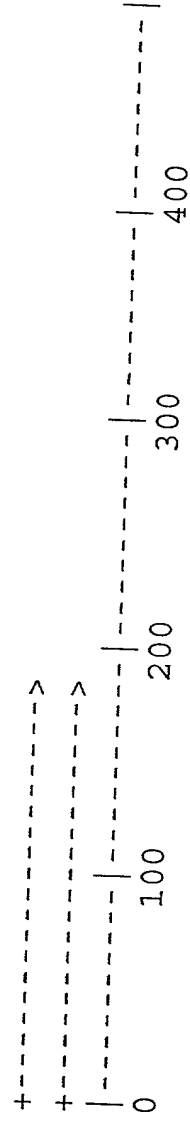
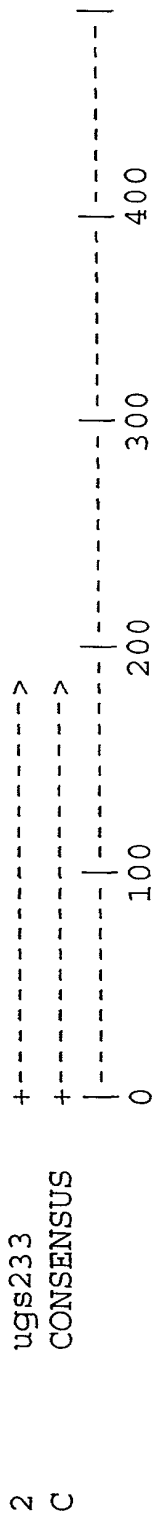


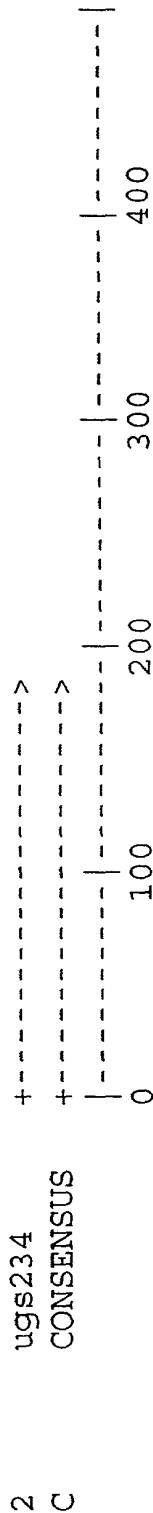
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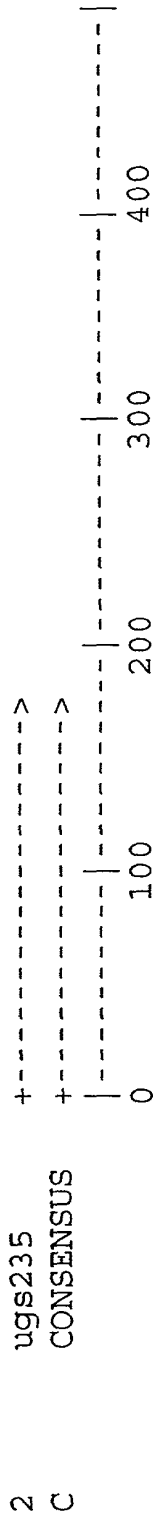
Contig: ugs233



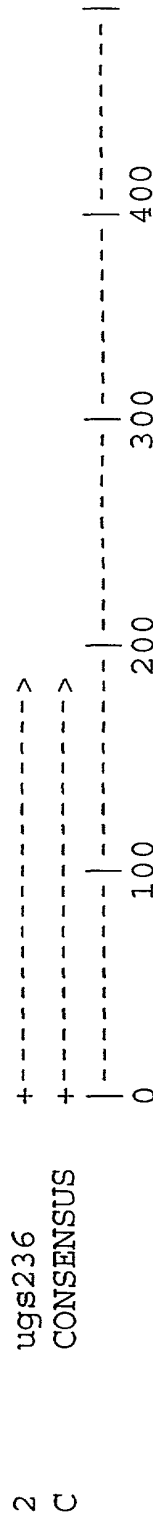
Contig: ugs234



Contig: ugs235



Contig: ugs236



819 Fragments in 697 Contigs *Fig. 8 - 180 of 180*

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ug092ft

1 GGATCTATGC ATTATGTGTT AGGAGATTTT TGAGYCATCT ATGTCANCTG
51 ATCCTAGGGA TCCATTCATG TGGTGGGGCT CCATGCCGSC CATGCCTCCC
101 ATTGGGCCGT CTGAGCCAGG ACCCATTGGA AAGTTAGACC GGCTGCCTCC
151 AGGCGGCACA GGATTAATCA TTGTGTAGAT GTTGTCACTG GAATTYBTTG
201 AATCTGCAGG ACTAGGCATG ATGGGGGTTC CTGGAGGGCC ACCACCACCA
251 GGGGGGTCCC ACATAGGTTC CGGGTGATGA TGAGGAGTAC GGGATTGAGT
301 TAGCACTGTT GGGATTGGGC CAGGGTCTGC CAGCTCCTGG GSCCATGTTA
351 ATCCCAGGVA TGGCGGGGCC GAGGGAGTTK GGTGGTGGTC TMTAGCCGCT
401 GCCGTAATTC TGTGGGNCAG GCCCATGGGC CCATGCCTCG GGGAGGGTTM
451 ATTCTCTGMA TTGANNCTC CAATGTTGGG GTRACCTTGT TGTCGTGTG

ug092ors

1 NGAANTCCGA GCGGGCGAGC GCCGGGNNGG GGGCCGGGWG CWRGGCARCT
51 CGGGWGRNCC GGACGGTAGC GGCGGCGGCG GCGGCGGGCT CGGCGCCCTC
101 TTCTCTGCAA GCCATGTTTG CCAAAGGCAA AGGCTCGGCG GTGCCCTCGG
151 ACGGGCARGC TCGGGAAAAG TTAGCTTTAT ACGTCTACGA ATANTTTACT
201 GCACGTWGGA GCANMAGAAA TCTGCACAGA CCTTCTTATC AGAGATTCTGA
251 TGGGAAAAMH MNCATCACAC TGGGTGAACC NCCTGGGTTC CTGCACTCGT
301 GGTGGTGTGT ATTTTGGGAC CTTTACTGTG CAGCTCCTGA AAGGGGAGAC
351 ACTTGTGAAC ATTCAAGTGA AGCAAAAGCC TTTCATGATN NHTGTGCAG
401 CAGCTGNCCC CAAGCCCTGT GCTTGGCAAC ATTNCCCCCA ATGATGGGAT
451 GCCCGGNVGS CCCATCCCGC CAGGKTTCTT TCAGCCTTTT ATGTCACCGC
501 GATATGCAGG CGGCCAGGC CCCGNATCAG AATGGGAAAC CAGCCTCCAG
551 GGGGAGTTCC TGGGACACAG CCACTTGCTG CCCAATTCCA TGGG

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ug093f

1 GCCATSTGGT GGATTCGCCG GGTWMGTCGC CTGGGCTGGC AATTGTGTTT
51 TCTTCGTGTC TGTCWCACCH CYSTCCCGGC TCTTCTGGCT TTCCACGTCT
101 CT

ug093ft

1 GGAATTCGCC GGGTATAGTA GCCTGGGCTG GCATTTGTGT TCTCTTAGTG
51 TCTGTATAAC AYCISTCCAG GCTCTTCTGG CTTTCATAGT CTCTSGTGAM
101 AHGTCTGGTG TAATTCTBAT AGGCCTTCCT TTATHYVYKM CTYGACCTTT
151 CTCCTTACYG CTCTT

ug106ft

1 GGNATTCGGC ANNGRAGGGA GCAGAGAGGA GGCACAGATG GGCCGTGGGA
51 GAAGAGAGAT AGGAGGGCAG AGGCGATCGC SGKTGCAAGC AGGAAATGCC
101 TTCGCCTCCT CCTGCAGGTT TGCAAAGAGC TCTGAAAAGG TCTGGCGGTC
151 CCTGAAGTGG GTTGGGGGTG GGTAGGGCTG CATAGTGACC CGCACAAAGA
201 GAGGGAGAAT SGMGCACCTC GAATATCCTT CAACTCAAAG AAAAGGATAA
251 MGGMGAGCAA ATGCATGTAT CTCTTCAGAT AGATTBTGAB CTSGGCCAAG
301 TAACTTATAT AC

ug106ors

1 GGAATTCCTC CCTTTGTNCT GNCAGNTTTT TNCCCCTTGA NCATWNCATT
51 CATTCAATNC ATTCATTCAW TNCAGTGNAAG GAGCYTCGTG KYCAGKNATT
101 CCAGACTCCG ATGAAAHTYG AAAATCGANY CNYYYYCANNKT CYAATTANNN
151 KCYAAYCAGA GAGAAACGSY TCCAGTTTCG TNCAGCATAG ACCATACATA
201 TATVCVVBKK KGKGCAGTGT CTACAAGTAA AACAGTTGCT GGAGTAGGCC
251 GGCCAAGGAT TCTACTCGTT TCTAAATAAT CAGATGACTT TTTA

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ug120fmin

1 GGAATTCGAC AAATTAAGAM AMGCAAACAA ATCATAGCTG CKCCTSWCGT
51 KTTTTGTGCG AAATTGCACA AGAKCCTATA CACCTGA

ug120os

1 GGAANTCCAT AAGTACTATN AWDDNVBBVH WWWTTTTAAG TTGAGGCTCT
51 AATTAGACAT CAGCCTGATT YCTTTSAGTT CCACACACAC ACACACACAC
101 ACACACACAC ACACACACAC ACACACTGTC TTCAGCAGTG AGACCTTACA
151 ATCACTTCTT AGAAAACAMT TGATAAGTMG CCTTGCCAAT AGCCAGTGTT
201 ATTTTGGGAT TCCATGGGAT TTCATGGAGT CAACATTGGT CAGCAACTCA
251 ATTAGATGTA AGCCATTCTT GGGACTGAVA GGTTTCCTTG GAGAGGAAAG
301 ANTGTCTAGT TGGAGTACTG TTTCCCTTGT TGTTTAGTGA CTCCATTTAG
351 ATTTAATCAT ATATGTATAT ATTTAAGAA GTTTCAACTG TAGTAGGTTT
401 CCATATGGAC CCCAAAANNT CTTAGTGCTA ACTGTCCCTC CCTG

ug254f

1 GGAATTCCCG GNCTCGAGCG GCCGCTTTTC CCCCCCCCCC CCDCDCDCTW
51 CWCWCWCTCT CTCTCTCTCT CTCTCTCTCT CTCGCGTCGC GGGCGTAGGT
101 TCTTTATTT

ug254ors

1 GGAATTNCAA GAATGTACGS CAGAGGAACG NCACCTGAGT GGTGGGGCAG
51 GCGGGGGAGG GGAGGTGCCC AGGGTGCCTG ACCCCAGGCC AGCNTCTACC
101 TCCACTCCAG TATCCCATCC TGTCCCGATT TGAACCTACC CAACCCAACC
151 TATCCCAACC CAAGTGAAGA CAGAGCCTTA CCTTACAGAA AACCCACCTG
201 GRAGAAGCAA RCCACTTNCA GCCCCTGTTT CTAATTTAMM CTAAATGAGG
251 TTTCTATGCA GACAATCCAT TCCTTAGGGG TTTATKTTYB NNNNNBBSCT
301 TCCCTTCTGA AGTGTTGTCA CTACAGCCCT GTKGAGTKGG GGAATKGKGC
351 CTTGTCCTTK GTCAGGAGGG AAGGCCAGTG CATGCTCTGA CTTACTGTTG
401 GAGGGGGCTG GGCCTSCTGG AACCCCCCA AATAAAGACC WACCCACCA
451 AAAAAAAAAA A

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ug277ors

1 GGAATTCATG GCGCATCCCG CACCCCTGGC GCCCGGCGCC GCGGCCGCGT
51 ACAGCAGCGC CCCGGGGGAG GCGCCCCCGT CCGCCGCCGC CGCCGCCGCC
101 GCCGCCGCTG CTGCCGCCGC CGCCGCGGCT G.CCGCGTCG TCGTCGGGAG
151 GGCCCGGGCC GGCGGGGCCC GCNGGTGCCG AGGCCGCCAA GC.AGTGCAG
201 TCCCTGCTCG GCGGCGGCAC AGAGCTCGTC GGGGGCCCCG GGCGCTGCCC
251 TACGGCTACT TCGGCAGCKG CTACTACCCG TRCGCCCGCN ATGGGCCCCG
301 ACCCCAACGS CATCAAGTCG TGCGCGCAGN CTGCTTCGGC CGCCGCCNSY
351 CTTGCGCGAC AAGTACATGG ACAMCNGCCG GCCCCGYGGC SAGGAGTTTA
401 GCTTCCGCG

ug277f

1 CTCACTATMC CCMTYCCCCT CTMGATCATC TCACCCCCCA ATCTCTAAAT
51 TCCCCTYAGS ASACCAAACC TCARCCTCTC TCTATCCAAT TCTTCAGTTA
101 GTAT

ug277t

1 TCCTTAHGCK TTTCTTCAAG CTGCCCTCTG CTCCACCTTT TAATCCATTA
51 ACTAGTGGTC TTGAGTTTAT TGATGACTTT TTTCTCTTG ACCCTCCTGT
101 TCTGGAACCA GATTGTGACC TGCCTCTCAG AGAGGTTTGT CGTGGCTGAT
151 ATCTCCTCC GTTTGTCCTT GGTAATGAAT TTKTTCGTAG CGTATTCCCG
201 TTCGAGTTCT TTCAACTGCA CCTTAGTGTA AGGCACGCGC TTCTTTCTCC
251 CCCTCCTATA GGAGCTGGCG TCTGAAGGAT GGGAGACGAC GTCGGGCAGA
301 GTGGACTTCC AGAGGTGGGG AGGCTGCGTC TGCTCTTTGG GGCAGTACAT
351 TTGGCCGTTT CAGCCGTTGG GCAGAGCCCA GGGGCTGATA GCTTTCCATG
401 GGAAGCCCCA GAGGCTCGTK GCGCGACTCG CCAGGACCCC CGAGCCCCGG
451 AACTACTGGC ATATCCAGGT AGCCGGGCAC GGGCTGGTGA TGGTKGGTAA
501 GGCCCGGYTG CTTA

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ug291ors

1 GGAATTCTGG AGAAGTGGGA GGTGTACTGT ACGGGGAGGG ACCAGGGGAA
51 GAAGAGGGGG GTGGAAAGTA AGAWGGGAGG AMMGGCAGGM GGGGGAGAGA
101 GAGATGTTAC TGCTTTCTTT TCAGCACATA TAMNNCNNAB GRCTANRGAA
151 ACGCATATTT AAAATCCAGT TTCTATATTC ACACCTAATT CACTTCCAAA
201 CCTACTTGTA AAAATCCATC TTCAGCAAAT GAATTTGTTG GGAAAATGGC
251 CAGGCATCCA TACACAGAAA GGTTCTCCAT CACCATAAAT TAACTCATGG
301 TATGCTGAAT TAATTGTTGA AAATTACTAG AAAATATGTT CACAAACCTG
351 GCAAATTCAG ACTATGTCAC ACACAAATAC TCCTTTCTTT CTCCTCCTC
401 CTCCT

ug291ft

1 GGAATTCGTA ATTTAGAAA ANYGCTTGCG TATTCNTHHH NNCGTYNGTT
51 NGAACGTGGG GGN.TYTTTN CTCAATAGCC CACATTGACC TTGAACTCAT
101 AAACTCAAGC AATCCTCCTG .ATACCCAAG TANGCTGAGT CTACATGTCT
151 GGGCCTCTGT GCTCGGTTGC CTCTGATTTT CATCATCTGA AACTAAGACC
201 TGCCAAAGTN GGGGGGGGGG GNCAGTTTTT CTGAGATTTC GAGACTTGCA
251 TGCSCGGTAC TGGATTGATG TGAGAGCACC CTCTGGGGCC ATCTCTGTTC
301 TAATNCCCGG GCTCGGTCTT CTGCAGCCTT TGGAAAGGTT ATGTYTCAGA
351 ATAGGTGTTG GTTTACACCG ATGTTTTTCA ATGCTTCATA GGCATTBMMC
401 AAGATAMC

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ug307cons

1 GGAATTCCCN GGCTCGAGCG GCCGCTTTTT TTTTTTTTTT TTTTCAGAAA
51 GCCAGTTTAT TTCTWAGNCT TTNTNCATAN MHYYYHBMNC SGGTACCAAT
101 AGTTACCYGC CATACTCGCA CCAAGTTGTC TGTATAGCCA GCAAACAGAG
151 TCTKGCCATC AGCAGACCAT GCCAAAGAGG TACTACTGGGG TGGCTCTGCC
201 TTKCTGCTGG TGCTGATAAC KTCTTNCKBC AAKTCATCTA CAATGRBCTK
251 GCCCTCCAAG TYCCAGAYCT TGATGCTGVG NNCMRTGGCA GCSCAGAGCC
301 AGTAGCGGTT GGGGCTGAAG CACAAGGCAT TGRTGATGTC CCCACCATYT
351 AAAGKKTAGA GGTGCTTGCC TTCATTGAGA TCCCACAGCA TAGCCTGGCC
401 ATCCTTGCCT CCAGAAGCAC AGAGGGATCC ATCTGGAGAG ACAGTCACTG
451 TGTTCAAGTA GCCAGTGTGG CCAATGTGGT TGGTCTTTAG CTGCAGTTAG
501 CCAGATTCCA CGAATTCCAC CACA

ug308f

1 ATTGGCCTTG AKCATCTGAG CGGCGCAGTK TGTGAATCAA GCTGAGCGGC
51 GCTTTTTTTTT TTTTTCAGC TAACTTA

ug308o

1 GAATTCGCTC TCCTTCCCTC GGAACAACAT TAGCTACCTG GTGCTCTCCA
51 TGATCAGCAT GGGGCTCTTC TCCATCGCTC CCCTCATTTA TGGCAGCATG
101 GAGATGTTCC CTCGGCACAG CAACTCTACC GCCATGGCAA GGCCTATCGC
151 TTCCTGTTTG GTTTTTCTGC TGTCTCTGTC ATGTACCTGG TGTTGGTACT
201 GGCAGTCCAA GTTCATGCCT GGCAACTGTA CTACAGCAAA AAACTCTTAG
251 ACTCTTGGTT CACCAGCACA CAGGAGAAGA AACBGAAATG AAGCCTGCTT
301 GATAAACTGC TCTCGAGGGG TAAACCTAG GBCTCCCATT GAGCAGCGTK
351 AAGGGAGCHG TCCAGACTCT CCATCGATTG TVGCATCTGT GATGTTKGVC
401 ACC

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ug308t

1 GGAATTCGTG GATCTGGCTA ACTGCAGCTA AAGACCAACC ACATTGGCCA
51 CACTGGCTAC CTGAACACAG TGA CTGTCTC TCCAGATGGA TCCCTCTGTG
101 CTTCTGGAGG CAAGGATGGC CAGGCTATGC TGTGGGATCT CAATGAAGGC
151 AAGCACCTCT AACTTTAGA TGGTGGGGAC ATCATCAATG CCTTGTGCTT
201 CAGCCCCAAC CGCTACTGGC TCTGCGCTGC CACTGGCCCC AGCATCAAGA
251 KCTGGGACTT GGAGGGCAAG ATCATTGTAG ATGATTGGCA AGAGTTATCA
301 GCACCAGCAG CAAGGCAGAG CCACCCAGT GTACCTCTTT GGCATGGTCT
351 GCTGATGGCC AGACTCTGTT TGCTGGCTAT ACAGACAACT TGGTGCGAGT
401 ATGGCAGGTA ACTATTGGTA CCCGSTAAAR GKTTTATGAC

ug311cons

1 ATTCGGCGGC GTTATTGG AGCAAATTCA GCTCCCGGAG CTGGACGGTT
51 GAATGCAGGA GGAGTTCCAC CAATTGCTCC AATCCTTCC ATTGTTGCAG
101 CTTGGCCAAA ACGTTCAGTT GTTGGTGGGG TCAATCCAAG GGTTCATCT
151 GGCATCATAG TGGCAGGTCC TGGAGGAGCT GGAGTACCAG GTGGCACAGG
201 AGCA.GGGGG CATCGCGCCT CTATT.GTTT ATGCCCATAG CACCTCCCAT
251 AGCCATTTGG CCCATCCGTA TCTCTTGTT TCTCGCATCA GGGAAGGTTC
301 CCTT.GAATC CTTCTGCTG TCGGCGCATC ATTCCTCTT GCTGTCGCCG
351 CATCTCTKCC TCACGGCGCC TCGTKCCTC KTCCTGCCTG AGTTCTAACT
401 GCYTTCGSTT CTGAACCYCT TKGKTATGCA GCTCCTCCAT TCTCCGAAGC
451 TCTTCTTGAC GTCTYATCAA ATCCYGCCTC ATTAGCATAA CCYGGKGCTC
501 WTGACGKGYA GCCTCCATCT CCATCTCCAG CNTTCTCNAC GAGCCTCCTN
551 GATGTNCCGA NCCACTNGAK CCGTGTGTTG CKTCTCCATC TCAATGAGTG
601 CCTTCCAGCG CATGGCATA CATACTCAA AGGAGCVAWV NHGTGCAAAT
651 CTGGGTGGCT GTTCTCTCTC CTTGTGGAAT TGCTNNNNNT TGANNNTCCAC
701 CACA

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ug316cons

1 CGDTAGGCCGA GCAGCGCCTN NCCTGAAGCT GCGGGCATT CCGATCAGAA
51 ATGAGCGCCA GTCGTCGTCG GCTCTCGGCA CCGAATGCGT ATGATTCTCC
101 GCCAGCATGG CTTCGGCCAG TCGGTCGAGC AGCINNCCMRC TTGTTCTCTGA
151 AGTGCCAGTA AAGCGCCGGC TGCTGAACCC CCAACCSDDN VVMSAKTTTR
201 CGTGTCGTCA NNAMCGTCTN ACRBCGACCT YGTTNCAANC AGGWCCNWGG
251 GCGGMAMGGA TCNACTGTNR WTCGGSYKYR ACKTTKTNNC ATSTNGAVR
301 CTTTATCACT GATAAACATA SAT

ug317cons

1 GGAATTCCGC TGCCTCAAGC TGGCTTAAGT CCTGCTGAGA TTCAGCAACT
51 ATGGAAGAA GTGACTGGAG TCCATAGTAT GGAAGACAAC GGCATCAAGC
101 ATGGAGGGCT AGACCTCACG ACTAACAATT CCTCCTCGAC TACCTCTCC
151 ACCACGTCCA AAGCATC.AC CACCCATCAC ACATCATTCC ATAGTGAACG
201 GACAGTCT.T CAGTTCTGAA TGCAAGGCGG GACAGCTCAT CACATGAGGM
251 GACTGGGGCC TCGCACACTC TCTATGGCCA TGGAGTCTGC AAGTGNGCCA
301 GGCTGTGAAA GCATATGTGA AGATTTTGNG ACAGTTTTTG AAGCACCTTA
351 ACAATGAGCA TGCATTGGAT GACCGAAGCA CTGCCCAATG TCGAGTGCAA
401 ATGCAGGTGG TACAGCAGT.TAGAAATACA GCTTTCTAAG GMACGCGAAC
451 GT.CTTCAAG C.GATGATGA CCSACTTGCA CATGCGMCCC TCAGAGCCCA
501 AACCATCTCC CAAACCTCTA AATCTGGTGT CTAGTGTCAC CATGTGGAAG
551 AACATGCTGG AGACATCCCC ACAGAGCTTA CCTCAAACCC CTACCACACC
601 AACGGCCCCA GTCACCCCGA TTACCCANGG ACCCTCTGGA ATTCC

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ug320ft

1 GGAATTCAAA RCAGTAACTC CATAGAGCAT CAGNMAAMGA VTCCATGAAC
51 GTACATGTTC CAAATDDGTN NGCCTCGGGA GTAGTCTTGG GAATGAGAGT
101 CCTTACGGTC CAACATGCTG GCAAACGTTA GCTAACATTC AATGTCAGAN
151 MAGMGTGAGA CAMGCTTGTG CGCTTACMAG THAAMCAGTA GAGTTCTTGC
201 AGAGACAGAT TTSTGNAGGH NSTCAGTCAC GATGACAAAG TCTCACATAG
251 HHCTBGCAAG ACACCGGGAC GATTGASRA

ug320ors

1 GGAATT.CGT ACAGTCACCA AAGTCACATT TCAGAGGAAA TCTTAATAGA
51 TCTTCTCACA GCCAAAAATG CAAGAAGCAC ACATTTTATA GTTTTNNGT
101 TGTATCTCAG AGCCTCAGTC CATAAGAAC AAAGTCAGCC CAACAAAATC
151 AGTTCAAGGA AAACAAAAGT TAATTTGCTT GGGCTTCCTA GCTAACACTT
201 GGCTATTTTC CCACTCAGGT GGAGGAGTGT GTAATTCTGC CAGTGCCCCGG
251 GAGCTGAGCA CCCAGGBTAA AACACACAAA AVMACACAAG NTTAGGNTCC
301 TGGTGNCTKA GAAAGTTACA GTTAGAGCGG AGGCTKCTKA CAGCCTGGRN
351 GTTCCTGGRA TRATCAMAAC NTCCAGCANG CACAACCTTG ACTTACAATT
401 GRCAGCTCTG CTCTACTCTG GGGTCTGAAA ACCCCAGAGA GGCGCAAAGC
451 TGA CTCTAAG AGGCAAGGTC TGTCTTGCTG TTGTTCTATT GCCACGAAGA
501 GACACCATGA CCAAGGCAAC TTTGAAAGCA TTTAATTTGG GGGKTCATGG
551 ATCCAAGGGG

ug334ft

1 GGAATTCGTT TTBYTTTTTT TTTTTTTTTT TTTVGGTATA ACACAACKT
51 KRRTAADCTA TTACAATWTW TCATGAACAA GGTAATCAC TTGAGTAACT

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ug334ors

1 GGAATTCG.C GTCGGACCTN GCGGAGCCCA GGATGGTGT G.CTCGAGAG
51 CGAGCAGTTC CTGACGGAGC TGACCAGGCT CTTCCAGAAG TGCCGCTCGT
101 CGGGCAGCGT GTTCATCACC CTCAAGAAAT ATGACGGTCG CACCAAACCT
151 ATCCCGAGGA AGAGTTCTGT GGAGGGCCTC GAGCCTGCAG AAAACAAGTG
201 TCTGTTGAGA GCCACGGATG GGAAAMGGAA GAHCAGCACC GTGGTGAGCT
251 CCAAAGAAGT GAACAAGTTT CAGATGGCCT ATTCAAATCT ACTGAGAGCC
301 AACATGGACG GG.CTGAAGA AGAGGGACAA GAAGAACAAG AGTAAGAHGW
351 GCAAACYAGC ACAGTGNACA GGYGNTGGCT GCTACCAACC AGSTGNCACA
401 ANGTGNCATT TTNCNNNCTC NTNGTTTGCT RVTTTNCAGC AMCTSTGTAT
451 GTAAC TGTTC CCACGGAAGG GTCCTTTAAG AGAGAAGGAC TGGGATGGGC
501 ATGGGCTAGT TGTBGTAAGA CGCCA KTTTT SATTGTG CYG TGTGGGCTGG
551 ATATTCTTAG ATTCCAGCCG TA

ug335ors

1 GGAATTCCAT TGGCAATTC TTTTCCAAT TCCATAACTT TATTCATTBC
51 CAA.AG.AGA GCTGGTTTTT ATCAATAGGC AACTTTGTT CCTGACGAAT
101 CAGTCTGGCC ACAGAAATCA TAAATCC.A CATATGCTGT GCAAGCCTCT
151 TTATAT

ug335t

1 GGTGGATTCC TTCCTTAATA GTGTTATTVT GTTTGTTTCT ATGVTTGTCC
51 CCCTCCCCTT TTCTTGAGGC AGCGTCTCAC TCTGTAGCCC AGACTTGACC
101 TGGAATCAG AGCAATCCTC CTGCCTCAGC CTCCCAAGGG CTAGGATCAC
151 AGGCGTGCGC CACCACGCCC AGCCTTCTTA TATTTRGRRD DTTTTTTTCT
201 TGCTTTWATT TGATTTTTCT TTTCTTTACA AATAGAATTA SCACCCTT

ug353ft

1 GGAANTCCGG CTCGAGCGGC CGCTTTTTTT TTTTCTCTCT CTCTCAGCCT
51 TCTGGTTATC GTTACATGRG AACATCAGAC ATACTARRGG GG

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ug353ors

1 GGAATTCGGG GGAGAAAGAG AGGGAGGGAG AWWGWDAGAK AKAGAGAGAK
51 AKAKATCTTD TTCTYCTGGC ACAATATTWW YTKTTTNNNN DTDWGCTNNA
101 AACTTKTTCT NGTATTTTWT KACAWYMRGG RAATTCTTTC CTCTCTAGGC
151 AGATTGCCAA AAACAAC TAG AAGCTAAATG CCTGTGCCTT CTGCTTCTAC
201 GACACACCAC TCCGTCTTGT TCAGTTTCAA CTAGCGTCGC TCTAAAAGGA
251 CAAAAAACTT CTTGTTTTTC TAAATAAAAC ATAAATGGCC CAGAATTGA
301 ATTGCCGATC TTAAAATTTT AAGTGACTGA AGATTCTATT AATTCTGGCA
351 ATAAATCAT TAAAAACAAA ACAGGTTGCA TAAGACTTTT AAACAATTCA
401 TTCACAGGCA TGAGAATTTA AGGTTTCTTT TAAAATATAA AATGCTAAAA
451 CAATAAGTCT AACAGGAGAA TATGAATAAT ACMATATTCT AAGAAAAAAA
501 CCCACAAAGA CAAACATGAC ATTTCAATTCA TAGCTCATT CAAATAAACCA
551 AGGATTAAAC CTTAGTTTTA ACCTGTAAAT TTTCTTTTTT RYTTTAGTAT
601 GTCTGATGTC DCATGTACGR TARCCAGAAG GCC

ug354cons

1 GGAATTCAGG AATTTVBYW NVCWVDSCWR MYYYCMYKKY SKYMTCCGMC
51 TCCTCGGGGG CMNCTCCTCT CTAGTGCCA AAGACATCAV GANAATVCTN
101 GACAGCGTGG GCATCGAAGC GGACGATGAT CGGCTCAACA AGGTCATCAG
151 TGAGCTGAAT GGAAAGNNCA TTGDGGNTGT CATCGNTCAG GGTGTTGGCA
201 AGCTGGCCAG TGTGCCTGCT GGTGGGGCTG TGGCTGTTTC TGCTGCCCCT
251 GGCTCTGCAG CACCTGCTGC TGGTTCTGCC CCCGCTGCAG CAGAGGAGAA
301 GAAAGATGAG AAGAAGGAGG AGTCCGAGGA GTCGGATGAC GACATGGGAT
351 TTGGCTTGTT TGATTAAATT CCTGCTCCCC T.GCAVATAA AGTCBTTT.A
401 TGTAATAAAAA AAAAAAAAAA AGCGGCCGTC GAGCCGGTGA ATTCC

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ug357ft

1 GGAATTCGTG AGCAGAAAGC AATGAACATA GATGGTATAC ATACTGTATG
51 BSTGTACTVG CTACAVGRGA CATA CAMGCA TGTC CATCGA AGACTTGAAG
101 AGTTCTAAAG CAGCTTACAT ACCAGCTCAC CTGTCCTGAC TTCAGTTAAA
151 TVTVGV SCTA TGNTBCCAAC AACAGGGGAA AMCAGACTAT ACGGTGATTC
201 TCCTCAGMGT GTCTTGTTTT TCCTA

ug357ors

1 GGAATTCGTC TTCAACGGCT TCTGTAAATC TCGGTGACCC CACAAGGCGT
51 ACTGAAGGAG ATTACTTATC GTACAGAGAG TTACATTCAA TGGGAAGAAC
101 TCCAGTCATG TCAGGATCAC AGAGACCTCT TTCTGCACGA GCGTACAGCA
151 TCGATGGCCC AAATACATCC AGGCCTCAGA GTGCCCCGTCC CTCTATTAAT
201 GRANNVCCAG AGAGAACTAT GTCAGNTAGT GANTTCWATY WCTNCACGGA
251 CNTAGTCCTT CAAA AWGACC AAATACAAGG KTCGGGTCTG AACATNTCTC
301 TGTTAGADCC YCCA KGDRWA AGCAAGGTTC CTCATGACTG GCGGGANCNA
351 GTACTACGAC ACATTGAGGC CNA AAWGTTA GAAAAGGTAA TTBAACTGAG
401 TTTTTCATTC TCTTWCTTAA TTTWTTTC

ug371f

1 GGAATTCAAC THATTKKACT ATBSVNCAV SVANCACTDG TKCTGCTGC.
51 ..TGCTGCTG CTGCTGCTGC TGCTGCTGCA GCAGCAGCAG CAGCAGCAGC
101 AGCAGCAGCA GCAGCAGCAG CAGCTACAVC GGCKCACACA

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ug371cons

1 GGAATTNCCC GGCCCTGGCA CAGAGGACTA GGTGTGAGAG TGTGAGGTTC
51 CCACCCCCAC CTTTCTGCN GCBGCTCCCT CCCCCSNGAC ACAGCCACCC
101 TCCGTNGCTC ACCBBCTGGG AGCTTGTTGC TTCTTGTTCA AGGBGCGTAA
151 TTBCGACACT CTCTAGGGCG CAGGGAGCCC TGATTACAT ATTTCTCYNN
201 BGAGTBCBTT CCNNCTGGTA GGGATTNNNC TCTCTTBGGT TCTGACACCA
251 NGGNACAAGA GTBCARACNN TNGGAAAAAA CGACTYCCAG GAGCTAGCNT
301 TGGCGNTGGG CCTTGGTACC CNATTAGGCC TTTNYTTCTT CCAGGTTTTT
351 CCGCTCNYT SYKTCCCKYC TTTCTTTGCT TACTYCTCAC TCTTCTYCCT
401 TCTCTCTCCT GTCTTCYCT CTYCCTTTCC TCGCCTCCAT CCTGCKKTCT
451 CKCCTKTCTC CAGTCNKTCT TAGTRCCTCC ATCCTTTCCC TTTACTCTCT
501 CTCTNWCTCT MYCTCTCTCT CTCTCACACA CACACACACA CACCACACTA
551 GTGTTCTKKD AATWGTBAAT HGTGATCCCC CCTGCGCCTC CCTCTCTCGG
601 CCCYCCCCCT CC

ug440f

1 GGAATTCCGG CTCGAGCGGA CGCTTTTTTT TTTTTTTTTY T

ug440rs

1 GGAATTCCTT AATTTATCT AGCCTCTGGC CCAGGAAGAG TGCACATTTA
51 AWGGGACTCA GAGAAATGCT GAGACACATC AAGAGCTGCT GGGCATCCAG
101 GAAGAATCTG AGTGCAAATT TATCTTTTCC TGATGGGTGCG TCATCATCAA
151 TAATTACATG GHGAYCAGTC AACAAAATTK TAAAACCCGG HMCCAAGTTA
201 CAATCATGTG TTCTGTC

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ug441ft

1 GGAANTCCTT ACCTCAGANC CCTCATACAG TGCACTGGTA CCAACACCTG
51 GGAAGGCAGC CCGCAAAGG GGCCCTTCTC CTCCTTGAAC TATGTCTGAA
101 TCTTTGAGTA TCTCATTGTG CCCAADATGC ATCTGGGAAT TGTGCAGAAA
151 GACGTTTCAGA AAAGAGGGTG ATAMCAGAGA HHYCCCGAAT AAGGGGACCA
201 ATGTATATGG BCYYCMTAC ACAGTTTCTA TAGRSSCYBY BGTAGACCTT
251 TBGTTGGGAA ACGCCCTACA TCTGGGCATA GCTTCCTTTT

ug441ors

1 GNAATTCGAG TAGATTCCCA GTGCTCACCA TGAGGGAAAC AATGTTACTA
51 TAMCDDDNCC TANTGNASGN NNNNNNNNGC CNGNGGTAAA CNGNTAGAGG
101 NTCCTCTGNT NCANTGTNCT TTAMACAYMR YTWSRGTAGA CAGCAATGCT
151 CTTTACCTAG CTTAGTGTTT TGAWKGSMAA ATATTGTATA TTGTGATAAT
201 TATGTCCTAT TTATTGAGA TTCTTGTTTA AAATTAAAA AACAAAAAAA
251 CAAATDAAAA TTTTTTTGCT ATGCCCTAGA TGAGGGGCTT TTTTTTCCAA
301 CCAAAGGTCT ACAAAGTTT CTATAGAAAC TGTGATTG

ug482ft

1 GGAATTCGGC TTCAAAACAC CATGTAACAT CTTCAAAAGA AAAVANNTT
51 TWWWWWMTCA AACGAATCAG AAATGTAAAT CCAGGTCCAC GAACCCACAG
101 TTAGGCCAG TGGAGTGAGA GGGTCCAGGG AATAGGGGGT GGGGGGAAGA
151 HAGSNAGCCA AAGTCTCCTG AGGCTCCCCT CAGATGTGTA GAAAAATTAA
201 AGATAACYCC AAT

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ug093ors

1 GGAATTCAAC AGAATACAAG AAATGGAAGA GAGAATCTCA GGTGCAGAAG
51 ATTCCATAGA GAACATCGAC ACAACAGTCA AAGAAAATWC AAAATGCAAA
101 AGGATCCTAA CTCAAAACAT CCAGGTAATC CAGGACACAA TGAGAAGACC
151 AAACCTACGG ATAATAGGAA TTVATGAGAA TGAAGATTTT CAACTTAAAG
201 GGCCAGCTAA TATCTTCAMC AAAATAATAG AMGAVMMCTT CCCAAACATA
251 AAAVMGAGA TGCCCATGAT CATAACAAGAM GCCTACAGAA CTCCAAATAG
301 ACTGGACCAG AAAAGRAATT CCTCCCAACA CATAATAATC AGRACAACA

ug096f

1 TCTAGATGCA TGCTYGVGCG GCCGCCAGTG TGGTGAATT CCCGGTCTCG
51 AGCGGCCGCT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTT

ug096ors

1 GGAATTCGTG ATCATGAAGC CTAGTDCGCT CATTACACAA BBBSGGGGGA
51 GGDCTCAGGA CCTCTCCACC CCGGGAGTCA TTTCCCTGTG .TGCTGTGGA
101 ACTAATTTGA AAAGTAAAGT CCAAGGAAAC ACTGCTCTGT TTCTGAGACA
151 TGAAGGAAAT GAAAACACAA GACAAAGCAA AGAGC.TGCG CATTCTCTGG
201 CCCACGCACC GCGAGAGAGT GCCCAAGGTC AGCCATCACC CACTAGTGTA
251 AACTGACCCC AAGTTAGCTC CCCAGCGAGC AGGCTCCAAA CACCCCCATC
301 CTTCTTTTCT ACGGAGGTTT GTGAATAAAA TCACCCTCTT CCCTCAGTAC
351 CACATCTCTT AACTTTATCT RCCCAGCNAT GGGGTGAGCA GCCAGACTYN
401 GATCTKGTA MACTTACATA ACATAATTTG AGTGCTGAGA ATACAGCTCA
451 GAGGTAGAGC AACTTGCCT AGTGCTCATG AGCCACAGGC CCATTCCCAG
501 TATCATATAC ACAAASGATA ATTTTSTWGA CTA

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ug101orsft

1 GGAATTCCGC TTG.ACCTGC CTTGGGGTAT GGGTACTGCT TTGCTTTGGG
51 GTACAGTGCT CCAGTAAACC GAGGTATGAT CATGTTAGGC ACCAACGAGT
101 CATTTATCAT CAGGAAGGCA AGTCTCTCTC CATCGGGGGA CCACCAGTGG
151 GCGATATGAG AATGCAGAAG TTCTTCTAGA ATAAATGAGT GTTATNNYAC
201 ATCAACTTCA TATAACCAGT CAGCAATCCC ATTAATAATA ATGCCTTCCT
251 TTCCTGAAGA TGTTAGTCGT AAAGAACTGC TCTTGATATC AGGTTGATAG
301 TAGATATTGT TTTCAAAAAT ATAAATCAGC TGCTGTCCTT GCACACCCCA
351 GGCCG.CATA CTGCAACAC.TGAGTCCTCA ACTTCTGGGG GA.TTCAA.C
401 TCCCACANHT TCCCCAGATN NAAAGTATGT TDCCTGGCA TACGACGHYC
451 AAGCRGHKDC ATACTCATT CCGCTTCATA TTGATTACAA CATACACACT
501 GGA

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ug102cons

1 GGAATTCCTC TCTCTCTCTC TCTCTCTCTT TTTCTCTCTC GCTCTCTGCC
51 TTTCTCTGTC TCTACTCCCT CAACTCTCTT CCCCATGCCC TGAATAACCT
101 CTATTCTATA CTACAKGRCT GGKCCCTCAG GGGGAAGGGG TGCCTCAGCA
151 TGGGCCCCGCA GAGGTACCCC CTTCCCCACA CCTGATGGCA CCAAACATAT
201 TCCTTCTCTC CTTCTCTCCC TGCTCATCGC TTGAGGTAGC ATGGTTCTCT
251 CTGGGAAGCT CTGGGKGCTG AGTCAGGGCT CTGCNTCTGG CCCYCCCCTG
301 AAACTCCATC AGAATCTACA TGGCCCTGGR CTGTGGCAAT TTKCTTCTTG
351 GDCCCYAACA AGACTTWAAG NKYCTYGAAG GGCAAGGTTT CTTCCCACTA
401 AATCCAGCAC AGGGCAAGAC ACATAGTAGG TGTTCACAA GCACCTAATG
451 AGTGCTCTGG GTTGTGTTGGGA TTTBYBYBYG TTTGTYTGTT TTGGTTTTGG
501 GKTTTGTTTG TTKGTTWGTT TGTTTAGYNS GTTTTGCAAC AAKGTCTCAA
551 GTGACATAAC CCAGGGTGGC TTCAACAATG TKAACAAAGG GTCYCYKSC
601 YYSRM CYKKY MARKKSYKGG RNNMMMRGSS SMMCMWKSCY KGKSYWWWWK
651 GRKTKRRCCC AGGGCCTCAG GCATGCGGTA CAAGCACTCT ACCAACAGRT
701 CTGCATCCCC AAACCCCCAA CAGACAACTC TTGGTGCCCG GAGTGTGCCA
751 GGCCTCCCTG GTAGTACTGG GCAGACAGCA GTCCTTGCTC TTGGCCTTGC
801 TCCTGCTGGA AGCCTCCCTT GACTTCDTCA GGCKTTTACC TGAKTCTAC
851 TCTATGTCAC TCATCAAACC TCTGCGCCCA AGAGGARCN GYCCTGGGAAA
901 ACACAGGAGG CGGCGACACA AACTGTGCC TTTCTCGCT GGCCCCAAGG
951 AACTCAGCA GGGGTTGCTG GTACACCKTC AACCKTTTGT CTCTTGCCCC
1001 KKTCTCTC BTCTTGTTGCC TTTGAGGTTT CATGGTTGTG GTGGTTTGGG
1051 TTTTCTGTGG TCGGTTGGCA GTAAGGTCTS MNNCATACCC AGTGTTGTTG
1101 DTKCKGCAAA TGCNTATATA TAATGGNAAA TCC

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ug482ors

1 GGAATTCCCG GCTCGAGCGG CCCCTTTTTT TTGGGGGGGA GACGGGGGCT
51 CAGGGTGTGA ACATGAGGTG AGACCTGGCA TGGCAGGGCT GAGTCGTGCC
101 TGCTGTCAGC CCCTCTCTGT CCTTCCCGAG GCTGAGGGGG GCCTCAAGCT
151 CCCTTCCCCA GCAGAGCCCC ACCCACCCAC CCCGCCTTCA AAGCCCCCTT
201 TGGAGAGTTA ACTGTCCGTG TGAGGCGCTC ACTCAACCAA TAAGCCCCAA
251 NGAACTCAAA GCAATAATCT TCGTTACTGA GATGCGCGGC TGTTAGTGTT
301 TNGTTGTTGG KTTTTGNTTT TTTGGGKTTT

ug484ft

1 GGAATTCNTT ATATCATTKK VNKNCCATAV GGBGTCATCT ATGTNBDAAT
51 TTWTYNNNNC ACATATBSSG CTCATTACAC TTATATCGGG TCAACACAGT
101 GGCAGATGNT CATCAAATGT CTTTCATTCT AACACAGTGG CAGATGTTAT
151 CAGATGTCTT TCTTTCTAAC AGTTACAAGG CTTGTCTCT ACCTCTCCG
201 CTTCCATGAC CCAGTTTTGG TGATTCTAAT TTAA

ug484ors

1 GGAATTCGTA ATCCACTAAT ATTTATGGGT GTTATCACAA GTATAMCAAT
51 NNGNTVGTCA ACTAC..AAA DCAATAAANC AGTTGCCCAA ATAGCAGCGT
101 ACGCCCTACG TTAGCACAGC CAGGTATAAA GATCCGTAGC CACACCAAAC
151 TCTACAACTG ACTGTTAAGT GGCATAACAG TAAATAGAGG AACAACCCAT
201 GTTCAGGGAT TAGTGAGAGG GTCCAGATGT TAGAAGCTGC GCCTCCTCCC
251 CACTCCTTGT ACTCACTCCA TCACTTAATG CAACTAAAGC GTGTTCTTCT
301 TTCCTTTTCH CTCCTANTCT GACAATGTAN TGCTGATATT AATTTGAAGV
351 CAATAGCCCC AACTGCCTTG AAAACAAAGA AGTATTATGA GTTGTTTGAA
401 CACATGGGKA TTAAAAAAC

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ug485ors

1 GGAATTCGCG CGCTGTCTTC CCGCTCGCGT CAGGGACCTG CCCGACTCAG
51 CGGCCGCCAT GGCATCAGAT GAAGGCAAGC TTTTCGTGGG AGGACTCAGC
101 TTCGACACCA ACGAGCAGGC GCTGGAGCAG GTCTTCTCCA AGTATGGGCA
151 GATCTCCGAA GTGGTGGTGG TAAAGGACAG GKAGNACCCA NGCGATCCCG
201 AGGCTTTGGG TTTSTCACCT TTKAAAATAT CGANTGACGC TAAGGANCGC
251 CATGATGGCN NTATNGAANT KGGNAAGTCT KTGGACGVGC NGGCRATCA
301 KAGTTGACCA GGCTNGRCAA GTCTTCTGAC MACCGGTGCC GAGGATACCG
351 GGGTGGCTCT GCTGGAGGCC GGGGCTTTTT CCGTGGGGGA CGAAGCCGGG
401 GCCGAGGGTT CTCCAGAGGA GGAGGAGACC GGGGCTATGG AGGTGGCCGC
451 TTTGAGTCCC GGAGTGGGGG TTATGGAGGC TCCAGAGACT ACTATGCCAG
501 CCGGAGTCAG GGTGGCAGCT ATGGTTATCG GAGCTCGGGA GGGTCCTACA
551 GAGACAGCTA TGACAGTTAT GCTACACACA ACGGGTAAAG CCCTCCGCGT
601 CCAGADYCGT CCTTCCATGG CT

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1 CAAGTTTGG TTGAATCCT CGGAGCGGCC TTTTTTTTTT TTTTTTTTTT
51 TTTTTYYYY YYYTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT
101 TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTAAAWWA
151 AAA

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1 GGAATTCCGA GGCGCCACAG CCGCTCCCGG ACTCGGAGCA GCCGCCGTCT
51 GCCGCGGAGC TGGAGTCTTC GGCCGAAGAA TGCAGCTGGG CCGGGCTTTT
101 CTCCTTCCAG GATCTGCGAG CCGTGCATCA GCAGCTGTGC TCGGTAAACT
151 CCCAGCTGGA GCCGTGTCTG CCGGTGTTCC CCGAAGAGCC GTCAGGNATG
201 TGGACGGTGC TGTTTGGGGG CGNCCCCGAG ATGACCGAGC AGGAGATCGA
251 CGCTCTATGT TACCAACTCC AGGTCTACCT GGGCCACGGS CTGGACACGT
301 GTGGCTGGAA GATCCTTTCT CAGGTTCTTT TCACCGAGAC GGATGATCCG
351 GAGGAGTATT ACGAAAGCCT CAGCGAGCTG CGGCAGAAGG GCTATGAAGA
401 GGTGCTTCAG CGGGCCAGGA GGCGCATCCA GGAGATGCAA AGCTTACAGG
451 GTGGTACAGA AGCTATAGCT CGATTGGMTC AGCTGGAATC TGACTIONAT
501 GAYCTGCAAC TTCAGTTGTA TGAAGTACAG TTTGAAATCT TGAAGTGTGA
551 AGAGTTGTTA TTAAGTGCAC AGCTGGAGAG CATCAAGAGA CTTATATCAG
601 ACT

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1 GGAATTCGTT TTTGTACTGT TAACATTAAC AATTTTTTTTT TTTTTVBBS
51 ARRVGATTCC AGGCTTTCTT GACACTATCT TTACTIONTTA TANACTCAGG
101 AGGTGGTGCT CCAAGGGCAA AGAATATTAC WRCWGACTTA GCCAATTAA
151 CTGCTCCAGC TGGGAATACA CTCTAAACAG AACCCCTACA ATCAGAGTCC
201 TATGGCTCTC TCTGAAGAGC AATGTAAATC AACATTAGC ACATTTCTAT
251 TACCTGCTTA AATGTTTCGAA GTCTATCCAG TGTCCTCTGT CTCTTTGGC
301 TAACCCAGGC ACTTTTTCTT TCCTCTTCAT CATGCAATTT GTCTCTCTT
351 ATTTGTATTG TATGATGGGC TCTATATTCA TCTTCACTCT GAAA

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1 GGAATTNCCC GGCTCGAGCG GCCACTTTTT TTTYTTTT TTTWWTTTT
51 TTTTTTTTT TTTTTTTTT TTTTTTTTT TTTTTTTTT TTTTTTTTT
101 TTTTTTTTT SCCTTG GGG GTTTTHTTB TTTTAAHH TBKTGSGGDK
151 TYACCCGAAM RGGCMAGCCT TYMCACCCMG GGGGGTTWKT CCCCAAAGG
201 AGGGA

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1 GGAATTCGNT ATTTATATAT AVGCGATAMT NBSGGTTTGK NACATTAGTT
51 TAAAAAAGG GAAAGHTTG NTYTGTATAN NNYGTTACCT TTTACAGAAT
101 NHAAGNATTC AACATTAAGN ACCATGTAAC CGAGACACTT GATCTGACAC
151 AGGGGCMGTC GGGAAACCGA TGA CTGCAGT AATCACC ACT GTACAAAAAT
201 GTTAGTGGGT TTTGTGCACG TAAATGCAC ACTTCCATT CCTGTCAGTT
251 TCTTATTGA VAA

ug494cons

1 GGAATTCTTT AMVTGTTTAC CATCTACTCG TGCTGAATCC TTCCAAGGAG
51 ATTGCTCCAG CGTATATCTC CAGGTCCTCG CTTTGCTCCT TTTACCAAAA
101 AATGCAAAAC ACAATTCCAT CGTGCATCTT AAGGGCTCCA ATCGTCAAAA
151 ATAGGAAAAA AATTCTTTGG AATAGCCAAT TAAGTTGAAT GAAAAAAN
201 TCCNANCACG AATGCGGTTT GGTTGGGGCA GGAAGGAATC CACTCCTATG
251 TKCCTGGTAA TCTGATCCCG CNCCATGAAT CCTGGTAATT CATCCTCCCT
301 ATCCTATCCA CATTATGATT TGAATCCAAT GATCCTACTC CAGTGATTGA
351 CAA.GTGTGC ATTGCCTATG TTTGTTTATV CBBKAATTAC AAAACTATTT
401 TTTTTTAACT TCCTAAGAAT TCC

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1 GGTGGAATTC GGTCGAGCGG CCGCNTTTTT TTTTTTTTTT TTTHWWHHWW
51 MMMMMMMHHH BBBBKKNNN KKKKTTTTT TWDGGWACAA CAAGDTKTAA
101 DGNTTTTTTT WCTATTNGGG KAWAAAMVGG TTTWAANGKT TTTWWWAARN
151 GGGTTTTNA

ug503r

1 SCAVMAHTTA CACTATATAC ACYAACCATC AWCAMTCTTT TACCTATCTC
51 TTATCCACTA TTAACCTCCT TCAATTTTYT TTTTAATTCT TTTTTTTGTA
101 CTACTCATGA TGTTTTYTTC CCTCTTCTTT TTTCTAATYT TTTTTTTCCC
151 AAYAYTTATA CTTTAATATA AAMTCTYGTT TTTTCATTCT ACAAATDTTY
201 TTGCTCTCCA WTTYTCATTC CTTTAAAATT CSGRCWTTTA ATTKCTBCA
251 AACBATTTTG CTTTTTGCTC CKTTTTKATT GTCCCTCATT KAKTCTCTKG
301 WCCCATTGG

ug503s

1 GGAATTCGTT TTTTTTTTTT TTTTCCCTC TGTGGTCTAA GCTTGTGGGT
51 CCCAGACTTA GTTGAGATAA AGCTGGCTGT TATCTCAAAG TCTTCCTCAG
101 TTCCAGCCTG AGAATCGGCA TCTAAGTCTT CAAACATTTC GTTGCTCGTT
151 TTATGCCCTC ATGAGCTCTG ACCATTGCAT GCGTTCCCAT CCCAGCTACA
201 GAACTTCAGT TTATAAGCAC ACAGTAACCA TTCCTCATTG CATGATGCCC
251 TCAAATAAAA GGTGAATACA GTCTAT

ug505ft

1 GGAATYNGGA ..TBDRVARG VCBTTAGGAT GA.CTGTTTG TATGGGAAGA
51 AGTTAGAGAC AATGGATTTN A.DNACNGAT TTNNBGGATA AN.GCKTTGT
101 SATNNN.NA GTANCAGGGA AGTAAGYCAT TTT.AGCCTA TN.CNTTAAG
151 V.GTGAA.CT ACAGGACAGT AANCTATATA

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ug505ors

1 GGAATTCCTC CAATCTACAC CTATACTTAA AAATCATGAA TCTGACTAGC
51 CATGCCATTG AAAACCACTC AGTACTAGAG GATGAACCAG TTTTCAATGT
101 TATCAGCCCT GGAAAACACG SCCAGCTCCC ACCCCCAGCA CATTCTANTT
151 TNGTTTTAAC ATTTTATARR DDNBGNBATT DYHMKTKTGG CCATTTTTGT
201 GGGCARAAAG TTAAATGGCT TCCYTTTRAG RCTTTGGTSC YGGGGCVADG
251 GGAGCACACC

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1 GGAATTCACC GGCTCGACCG GCCGCTTTTB TBTTHHBYYN YYNVT.CATN
51 CVDGNBYTTY GNNNNCTGTG CCTAGTAVTN NNGVNNBCCT AAVCTCACT
101 AGAATCCTAT TBBVGTATGG YAMAHBTYCT TSGTTCTAAA TYGGGTTKTT
151 TTGTCTTGGT TTTYTGTTT TYCGTTTTGT TTTGTTTTGT TGTTAAGAGC
201 TAGA

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1 GGAATTCGAG GAATATCAAC TTAGTGCTAT TWTCACATCG TTCAGTCAAA
51 CTTAGCCAGA GTTCCAACNC CCTACTTAAA ATTCAACTAG AAAGTTACCT
101 ACCAAGTACT AATTAGCATT ATAAHGTCAG AGCCTGCAGC TCCAGGCCTT
151 TCAGTTAGTT GTTTACTAGA AAGGACAGTC TTAAGCCAGA TACAGTTTMY
20 CATAAGANAH GTTAAAGMMT NCCAGTGAAG CAAGTTTTTY CTTTAGCCCT
251 AGATTCCMGG CAGNACTATT GAGCATAGAT AATYYCCCCC CCTCAGGCCA
301 GCTTTTT

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1 GGTGCAATTC CCGDGC GGCC VTTTTTTTTT TTTTTTTTTT TTTTTTTTTT
51 TTTTWWWHN NBBDRNNNNN NNNTTTTTTT TCACTGGNN ATATNTGNTT
101 TVTN.CCATC AGACATGCTG CAATHTVGV CATTYCCMCA GGGTWTAGCA
151 GTKTTAAAMA GTTTCGATTT GAACAGCTGA CATGAATAAA CAAACAGTGG
201 GTAGGTGAAT AACCTGCAAA CGCGAGTTCT GGATTCACCT TTTTGAGCTG
251 AGATGACAGA TTCAGCAGGA ACTCTGTAC

ugs148rs

1 GGAATTCCTT TTMGMGCAAG CCTGGGGTCC AGAGCAGATG TATTCGATT
51 CTGACCCTGA GTACGAGGGC CTGTTCGATA AGMCTCCCCT GGAGGAGGGC
101 CACACTGCGC GTGCACCTAA GTCTGCATCC TCGGCTGGCA GGAAATCTGG
151 TCGGCGTTCG AGTGGGAGGG CTCCGGGGAC CCGSGCTGGG CTGTCCCGAA
201 AGGCCSSCCS GTGCNGTCCA GANSCCMAAG GAAGAAGAGC CTCCAGTTGG
251 AAGAGGGCTG CTACCTTGAC CACTTGCCYG GAACCTBTGG CA

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1 GGAATTCATT CTTTAAAGA TTATTCTGTC TGCAAAGTTT AAAAAGTGTT
51 GAAAAATATT CTATACATCT TGCTCTTAGA ACGTCTCCAC TTTGACAGAT
101 CAGGTGACCC TCCTCATCAT CCTCTATACT CCTGGATCTT TTCCTTC.GG
151 TGGCTCTTCT GGAACGGCAA GTGGGCAGCA CCAAGATCGT CCAGCCAATC
201 AATATATCAG AGTGAATTCA GGGCAGAATA CGCAATTCAT HCAGNSGGGG
251 AGATATTCAG GCANTTCAGR TAAGCACCAG GCCACGRACA GTTGGCAGGM
301 GCAATTTCAA AWTNMAGTCC CCAGRAATTC ACAGGSCACA GTTTANKGTT
351 ACAGAAGRAA AAACATGGCA AGGMACAGAT TTTCAGATAA GATACTTAAM
401 GTGGCAATAG

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1 ACTAGTACGG CGCAGSWG GT GGAATTCAGA AATDACTACT GCGAAGGATA
51 TGTTC AAGA CATTACCATA GAGACGTTGA AAGCACTTAC CGGATCCATT
101 GCAGTAAATC CTCAGTCAGG AGCAGGAGAR GCAGCCSTAA GAGAAAGCGT
151 AATAGACCCT GTGCAAGTCA TCAGTCGCAT TCGGTTATGA GTSGTTTGT
201 TTAWATTTGG AATGGATTGA TTGTAAAGCT CTGAAAGG

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1 GGAATTCGGG GSCTAAAGTC TGTCTACATT ACAGATGGGG CTGGACTGTA
51 CTCTGGTGTT CTGGGGGATG TGGGWKAGAT GAGAAGVRGA AGGCAGCTTG
101 GCCTGTCCCA CCTATTCAAG TGCCTCCCTA AAGCAGGATN MGNAAGCTA
151 GGHMCCTAGC CAATAAGCAG AGCCTTTSGC TGAVGGAGAA AGTAGTCACC
201 CATGAGAAAT CCAACCACAA GTTTGTGCCA CAGGCAGGTG AATATGAGGT
251 CTCCTGGGG TGTGACTC CCTGGACTAA GAAAATTAAT ACNAAHHHHH
301 TGACACTGCA GTACCYCTAT GGAGAMMVMC NTMTACAGTT TTAGTTTGGT
351 AGGGTATCAA GTCACNTGTA CCAATGTGAC CTGTTCAATC T

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1 GCAGCTATTV GBCATCTCGM CCTCMGCTWT GCSACMGCTT GGYMCSNRST
51 SGRKCCACTA GTAACGGNCG CCAGTGTGGG GHATTCCCCT TTTGGGYYGT
101 TCTGAAGCTT GDTCTTCAWT CTTTACCCTG GVCTCAAATG NTTGVCTCCC
151 HTCMAHAAC CTCTTTVCTT TNGTTGGTGC GGNGAGTTCT CTTTCCCTT
201 TCCCTTTCTT ATGGCAGCCC CTACCTTGGC AACTCCACTC CACTCCACCA
251 GGTGTTGCTT CCCAGATAGC AGCTGGCAAG TTCTCCAAGG CTCAGGGTCC
301 TAAGGCTCAG TTTGCAGTGT GGGCAGTGTG TAGGACCAGC ATAATCTTAT
351 TCTTGTTGCC TCCACAACAC CACATCCCCT AGTGGTTCGT GCGCCCCTTG
401 AAGCTCTCCA TAGAGCTKGT TGACACTGCC ACTYAGGGCC TATGTCCCTT